# A COMPARISON OF THE MILITARY'S ORGANIC MOVEMENT AND COMMERCIAL EXPRESS CARRIERS

#### **THESIS**

Travis E. Condon Captain, USAF Kirk A. Patterson Captain, USAF

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#### **THESIS**

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Travis, E. Condon, M.S. Captain, USAF

Kirk A. Patterson, M.S. Captain, USAF

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The foolishness of God is wiser than men. 1 Cor 1:25

The simplest truths are the greatest, and so are the greatest men. - J.C. and A.W. Hare

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Travis E. Condon Kirk A. Patterson

# Table of Contents

	Page
Acknowledgment	ii
List of Tables	v
Abstract	vi
I. Introduction	1
Military Logistics Philosophy	2
Logistics Pipeline Prioritization	3
Air Mobility Command (AMC) vs. Commercial Airlift  Outsourcing	
OverviewSpecific Problem	
Objectives	
Research Scope	
II. Data Collection	12
Introduction	
Organic Data	
Commercial Data	16
III. Methodology and Data Analysis	20
Introduction	
Comparison of Shipment Times	
Comparison of Pipeline Segments	
Limitations	27
IV. Conclusions and Recommendations	28
Introduction	
Research Synopsis	
Summary of Findings.	
Discussion of Segments	
Conclusions Diawn Hom Research	

	Page
Discussion of Research Implications	
Appendix A. Organic Data	38
Appendix B. Commercial Data	46
Appendix C. March 1997 Federal Express Flight Schedule	50
Appendix D. Document Identifier Code Explanations	51
Bibliography	54
Condon Vita	57
Patterson Vita	58

# List of Tables

Table	ige
1. Force Activity Designator (FAD) Assignment Authority	4
2. Force/Activity Designator (FAD) Codes	4
3. Urgency of Need Designators (UND)	4
4. UMMIPS Priority Matrix	4
5. UMMIPS Time Standards in Calendar Days	5
6. Organic Data Provided From ATAC System	13
7. Organic Data Rejection	16
8. Percentage of Commercial Cargo Carried to Spangdahlem	17
9. Federal Express Information Categories	18
10. Exception Codes for Federal Express Cargo	19
11. Total Transit Time	20
12. Frequency Distribution of FedEx Shipments	21
13. Total Transit Time After Removal of Outliers	22
14. Pipeline Segments	24
15. Computations on Total Transit and Segment Times Before Removal of Outliers	26
16. Computations on Total Transit and Segment Times After Removal of Outliers	26

#### **Abstract**

The DoD has begun outsourcing airlift in order to expedite high priority cargo movement. However, are commercial express carriers more expedient in the cargo delivery than the Air Force organic transportation system? Although anecdotal evidence suggests commercial carriers are faster, little empirical research has been conducted on this subject.

This study compares the military's organic transportation system with Federal Express in the delivery of high priority cargo to Spangdahlem Air Base, Germany. The Large Sample Test of Hypothesis was used to determine if there was a significant difference between the cargo transit times of the two.

The mean delivery time for the military's organic transportation system from CONUS to Spangdahlem was 6.24 days, while Federal Express' mean delivery time was 2.71 days.

The primary conclusion drawn from this research is that Federal Express is indeed able to transport small items (weighing less than 150 pounds) to Spangdahlem AB, Germany faster than the military's traditional organic transportation system. A secondary conclusion taken from this research is that every segment of the pipeline except the actual flight time between CONUS and Europe all take significantly longer for the military system than for the commercial system.

#### A COMPARISON OF THE

#### MILITARY'S ORGANIC MOVEMENT

#### AND COMMERCIAL EXPRESS CARRIERS

#### I. Introduction

### **Military Logistics Philosophy**

The Department of Defense (DoD) logistics system, designed decades ago to support a global conflict with the Soviet Union and Warsaw Pact nations, is a slow, complex, and costly enterprise. It has been estimated to cost the American taxpayers approximately \$40 billion annually (Crock, 1995:98). This logistics arrangement, termed mass logistics paradigm by Girardini et. al, utilized three mechanisms for providing logistics support: 1) functional bureaucracies, 2) large inventories, and 3) special management actions (Girardini and others, 1995:18). With the end of the Cold War, the drawdown in military personnel, declining military budgets, and the emphasis on responding to two major regional contingencies, DoD's logistics system must now support a smaller, highly mobile, high-technology force with more flexible and responsive processes at a lower total cost. In response, the 1996 edition of the DoD Logistics Strategic Plan included the need for a restructured logistics system and stated two desired outcomes of restructuring logistics: "better, faster, and more reliable, and

highly mobile response capability and a leaner infrastructure that better balances public/private capabilities" (Logistics Strategic Plan, 1996:15).

#### **Air Force Lean Logistics**

The Air Force logistics community has taken numerous steps to achieve a more flexible and responsive logistics system and has grouped them under the term "Lean Logistics" and more recently "Smart Logistics" (Viccellio, 1996). Lean Logistics is an Air Force program that seeks to improve operational capability by adopting state-of-theart business practices for all logistics processes. The objective of Lean Logistics is to "maximize operational capability by using high velocity, just-in-time processes to manage mission and logistics uncertainty in-lieu of large inventory levels--resulting in shorter cycle times, reduced inventories and cost, and smaller mobility footprint" (Lean Logistics Master Plan v4.0, 1996:2).

Much of the focus on Lean logistics has been in reducing the reparable/serviceable pipeline. A recent GAO study reports the Air Force has approximately \$33 billion in reparable inventory (GAO, 1996:29). A 1990 Air Force Logistics Command analysis suggests that a one-day reduction in the pipeline could reduce inventory costs by \$16 to \$25 million annually (Hill, Rexroad, and Moulder, 1990:20).

#### **Logistics Pipeline**

Integral to all successful military operations is the establishment of a logistics pipeline. Air Force Doctrine Document 40 states:

Successful sustainment of forces requires a logistics pipeline to link a weapon system with its associated resources. This link makes it possible to sustain weapon systems with the resources needed for continuous operation as well as for retrograde movement. (Logistics, 1994:8)

A logistics pipeline is composed of many steps depending on the type of material being requisitioned, its source, and its destination. For high priority aircraft replacement parts, most originate from depots or other Air Force bases and are airlifted via organic military airlift or commercial airlift to the destination. Several organizations may get involved depending on the route of the material. The originating and terminating Traffic Management Offices, supporting ground transportation, and AMC aerial port organizations may contribute to the movement of the requisitioned item. If commercial airlift is used, the item may move from the source to the destination without any military organization involvement. A combination of these two modes is possible as well.

#### **Prioritization**

The Air Force currently utilizes the Uniform Materiel Movement and Issue Priority System (UMMIPS) as the established priority for order and ship pipeline time from the depot to base level organizations. Department of Defense Materiel Management Regulation, DoD 4140.1-R describes the UMMIPS process. The UMMIPS establishes these time standards in calendar days for each segment of the pipeline. Priority designators are determined from the Force/Activity Designator (FAD) code assigned to the requesting unit (Tables 1 and 2) and the Urgency of Need Designator (UND) specified by the requester (Table 3). Priority designators are consolidated into priority groups (Table 4) and time standards are given for each priority group in each segment of the pipeline (Table 5).

The UMMIPS first establishes prioritization on the priority group and then on the age of the requisitions within each group. The oldest requisition within the highest priority group has priority.

Table 1 - Force Activity Designator (FAD) Assignment Authority

PRECEDENCE	FORCE ACTIVITY	ASSIGNMENT
RATING	DESIGNATOR CODE	AUTHORITY
1-1 THRU 1-20	*	JCS
2-1 THRU 7-20	II	HQ USAF
8-1 THRU 13-20	111	HQ USAF
14-1 THRU 19-20	IV	HQ USAF
20-1 THRU 25-20	V	HQ USAF

Table 2 - Force/Activity Designator (FAD) Codes

I	ll	111	IV	V
COMBAT	COMBAT	DEPLOY	ACTIVE &	OTHER
	READINESS	READINESS	RESERVE	

Table 3 - Urgency of Need Designators (UND)

Α	В	С
CANNOT	MISSION	FIRM
PERFORM	CAPABILITY	RQMT & STOCK
MISSION	IMPAIRED	REPLENISHMENT

Table 4 - UMMIPS Priority Matrix

FAD	Α	В	С	
	1	4	11	
II II	2	5	12	
III	3	6	13	
IV	7	9	14	
V	8	10	15	
		←PRIORITY-	<del>)</del>	
		Priority Groups	3	
	Priorities 1 - 3 Group 1			
	Prioritie	es 4 - 8	Group 2	
	Prioritie	es 9 - 15	Group 3	

Table 5 - UMMIPS Time Standards in Calendar Days (Adapted from DoD 4140.1-R, DoD Materiel Management Regulation, 1993)

				TI	P-1			TF	P-2		T	P-3			
Priority Designator Edi	t		(PD 01-08)			(PD 01-08)			(PD	(PD 01-15)					
Requirements							(PD	01-1	5 for	444	)		•		
PIPELINE SEGMENT	(Note 1)		RDD (	OF 99	99,N_	_, E	RDD OF 444,555,777		Blan	Blank RDD					
<ul> <li>A. Requisition Submis</li> </ul>	sion				1			•	1			2			
B. Passing Action	2			0	).5				1			1			
C. ICP Availability Det	erminatio	n			1				1			1			(Note 3)
D. Depot Storage Site Base Processing ar Packaging			1			1			5						
E. Transportation Hold CONUS Intransit	and				1			4	4	•		10			(Note 4)
Area (Note 2)	CONUS	1	2	3	4	CONUS	1	2	3	4	CONUS	1.	2	3	4
F. POE and/or CCP processing and intransit to carrier	N/A	1	1	1	3	N/A	1	1	1	3	N/A	10	10	10	21 (Note 4)
G. Intransit Overseas	N/A	1	1	2	3	N/A	1	1	2	3	N/A	10	15	25	30
H. POD Processing	N/A	1	1	1	1	N/A	1	1	1	2	N/A	3	3	3	5
Intra-theater     Intransit	N/A	1	1	1	1	N/A	1	1	1	1	N/A	5	5	5	5
J. Receipt take-up by Requisitioner	.5	.5	.5	.5	.5	1	1	1	1	1	3	3	3	3	3
K. Total Order and Ship Time	5	9	9	10	13	9	13	13	14	18	22	50	55	65	83

#### NOTES:

Required Delivery Date (RDD):

- 999 Indicates expedited handling requirements for non mission capable supply (NMCS) overseas or CONUS customers deploying overseas within 30 days
- -- N\_ Indicates expedited handling due to NMCS requirement CONUS customer
- -- E\_\_ Indicates expedited handling due to anticipated NMCS requirement CONUS customer
- -- 555 Indicates exception to mass requisition cancellation, expedited handling required
- -- 777 Indicates expedited handling required for other than the above reasons
- -- 444 Indicates handling service for customers collocated with the storage activity or for locally negotiated arrangements
- -- Specific date indicates handling to meet that date of delivery
- -- Blank RDD indicates routine handling
- (1) Pipeline standards for materiel delivered exclude weekends and holidays except for segments D and E for requirements with RDDs 999, N\_\_, or E\_\_. Storage activity and transportation managers may combine the times for segments D and E as long as the combined time is not exceeded. The pipeline time standards are service level targets; they shall be met or improved upon whenever physically and economically feasible.
  - (2) Areas:
    - 1. To Alaska (Elmendorf only), Hawaii, N. Atlantic, Caribbean, or Central America
    - 2. To U.K. and Northern Europe
    - 3. To Japan (Yakota only), Okinawa, Korea (Osan only), Philippines, Guam and Western Mediterranean
    - 4. Hard lift areas and all other destinations not included in 1-3 (e.g. S. America, Eastern Mediterranean, Africa, Diego Garcia, etc) as determined by USTRANSCOM
  - (3) For manually submitted requisitions or requisitions requiring manual review, 1 day for PDs 01-08 and 3 days for PDs 09-15.
  - (4) Combine segments E and F as a single segment when a SEAVAN is loaded at source or when cargo is moved breakbulk to POD.
  - (5) Measurement of intra/inter-service lateral support or redistribution begins at C or D installation level).

DoD organizations, as in the commercial sector, have several options when deciding on the most appropriate mode of transportation to meet the UMMIPS time standards, maintain mission readiness, and limit logistics costs. Military organizations located overseas have relied on Air Mobility Command to move priority cargo in the past. However, with the global expansion of express commercial airlift services, they may begin to utilize this resource.

## Air Mobility Command (AMC) vs. Commercial Airlift

There exists a big difference between AMC airlift and commercial airlift. AMC airlift is centered around channel service. "A channel is a regularly scheduled mission over a fixed route with capacity available to all customers" (Air Mobility Master Plan, 1997:2-12). A monthly schedule is published for both passenger and cargo channel missions. A priority system is used to allocate airlift resources because demand exceeds AMC capabilities.

Express commercial carriers (i.e. FedEx, UPS), on the other hand, are more responsive to customer demands and are able to adjust flight schedules and airlift capabilities on a daily basis if necessary. According to Bill Endres, Program Management Advisor for Federal Express, Federal Express is able to fly an additional aircraft with only a few hours notice, if necessary to ensure the on time arrival of cargo. Thus, commercial express carriers have structured their business practices to ensure speedy, reliable, and flexible delivery.

The capabilities of the express commercial carriers have led to some observers to suggest that airlift of high priority cargo might be outsourced to the private sector. They

claim this strategy might reduce the logistics pipeline and lead to lower inventories and lower overall logistics costs. Normally, the organic transportation system is referred to as the Defense Transportation System (DTS). Air Force Policy Directive 24-2, <u>Preparation</u> and <u>Movement of Air Force Materiel</u>, defines the DTS as:

an integrated system associated with the movement of Department of Defense (DoD) owned or controlled materiel. It is comprised of DoD personnel, facilities, equipment, documents, systems, and those commercial applications and resources operating under the control or visibility of DoD.

Given this definition of the DTS includes commercial carriers and the objective to solely evaluate the organic transportation efficiency, the DTS will not be compared to Federal Express, but the comparison will be organic movements, excluding commercial air, to Federal Express pipeline times. No commercial carrier data was included in the organic analysis of the transportation pipeline.

#### **Outsourcing**

The push to outsource, or have the private sector perform certain tasks instead of the government using in-house personnel or resources, is not new to the U.S. Government or the DoD. During World War II, the Department of War (now DoD) took over certain capabilities that had previously been performed by the private sector. The Navy Sea-Bees is one example (Bejtlich and Hickman, 1996:11). The first Office of Management and Budget Circular A-76 was published in 1955 which supported privatization efforts.

Outsourcing gained momentum during the Reagan administration as a way to reduce the size of government, cut costs, and increase efficiency as declining defense budgets after

the Vietnam War forced officials to examine alternatives to reduce costs (Brandt, 1996:3).

Converting jobs currently performed by government employees to hiring the private sector to accomplish certain tasks has been shown to save money. One GAO report in 1994 found that a civilian employee costs about \$15,000 less per year than a military person of a comparable grade (GAO, 1994:4). The DoD calculates a savings of approximately \$9,600 per position (Thompson, 1995). The Army has on occasion cut costs by 30% after initiating outsourcing actions (POM FY 98-03:1). A Pentagon study of 235 initiatives between 1980 and 1982 indicate that contracting out services saved approximately 22% (Perritt, 1990:58).

There have been several examples of successful outsourcing initiatives in the recent past. For example, flight line maintenance of trainer aircraft has been privatized at Vance Air Force Base since 1960. Privatization has saved approximately 27% compared to other pilot training bases (DoD Congressional Report, 1989:43). Another example of successful outsourcing of noncombatant support operations is the contract the Army has established with the Brown and Root Services Corporation to run base camps, cook food, wash uniforms and entertain soldiers. Brown and Root has successfully worked in Somalia, Zaire, Italy, Saudi Arabia, and Bosnia. Army surveys from soldiers in Haiti indicate the soldiers were very pleased with the services provided by Brown and Root (Mathews, 1996:19).

Though there have been numerous examples of successful integration of the private sector into the DoD, there have also been numerous problems. One prime example was the attempt to privatize aircraft maintenance at Columbus AFB. Before

privatization, aircraft readiness rates were at 80%. One year later and after privatization, readiness rates stood at 33% (101<sup>st</sup> Cong., 1989:57). The Navy has also experienced problems with outsourcing in the U.S. Naval Air Force, Pacific Fleet (COMNAVAIRPAC). This command has experienced cost growth problems, lack of contract authority and control of resources, and reduced flexibility (Snyder, 1995:32-37).

#### **Overview**

In March, 1994 18 F-15C/D aircraft were transferred from Bitburg Air Base (AB), Germany to the 52nd Fighter Wing at Spangdahlem AB, Germany. During the transfer, Spangdahlem received and loaded the Mission Change Data (MCD) to support the 18 aircraft. Just prior to the transfer (February, 1994), Bitburg maintenance personnel filled the benchstock supplies for these aircraft to 200% to handle the initial parts requirements after relocating to Spangdahlem. This excessive benchstock allowed maintenance personnel to maintain a satisfactory Mission Capable Rate through 1994. In December, 1994, Spangdahlem met the Air Force standard of Total Not Mission Capable Supply (TNMCS) rate of 8 percent. However, as the benchstock began running out, TNMCS rates began rising and by December, 1995, the TNMCS rate for Spangdahlem had risen to 16.9 percent.

Numerous factors were found that contributed to the high TNMCS rates at Spangdahlem AB, including incomplete demand data at the time of the MCD, insufficient re-supply of expendable assets, high operations tempo, and heavy deployment taskings (McGovern, 1995).

After numerous meetings, Process Action Teams, and correspondences, one of several suggestions to improve the TNMCS rate was to begin shipping all high priority cargo to Spangdahlem via express air carriers. As Major General Rondal H. Smith, Warner-Robins Air Logistics Center Commander, stated in his letter to the Defense Logistics Agency on 12 January, 1996, "every day we shave off Spangdahlem's ship time improves overall mission capability and reduces TNMCS rates." The Defense Logistics Agency agreed to test the idea by allowing all high priority cargo (IPG 01-02 with RDDS 999/MICAP/777 and RDD less than 21 days) to be shipped via commercial air carriers from 1 May, 1996 through 30 September, 1996.

#### **Specific Problem**

With fewer defense dollars, it is imperative the Air Force reduce overall logistics costs while maintaining appropriate levels of mission capability. The scope of this research will exclude discussion of transportation costs and focus only on delivery time (the time between when an order leaves the consignor and when it is received by the consignee). The decision to send high priority cargo on commercial carriers to Spangdahlem could lead to tremendous changes within the Air Force on how cargo is shipped throughout the world. With this in mind, the effectiveness of the commercial carriers must be compared with the Air Force transportation system to ensure transit times are reduced by utilizing commercial carriers.

#### **Objectives**

Two objectives will be addressed in this thesis in an effort to determine effects of the Defense Logistics Agency (DLA) test run. The first objective is to determine if commercial express carriers are indeed able to transport cargo to Spangdahlem AB quicker than the traditional Air Force process. The second objective, if commercial carriers are faster, is to ascertain which portions of the Air Force transportation pipeline cause the delays when compared to the equivalent portions of the commercial carrier pipeline. The result of meeting these objectives will provide information that can be used when deciding if commercial carriers should be used to transport cargo to all Air Force bases around the world and which portions of the Air Force transportation system should be improved to make it more competitive with the commercial carriers

#### Research Scope

This research will be limited to analyzing the transit times of the various portions of the transportation pipeline between supply points in the U.S. and Spangdahlem AB, Germany for high priority cargo. Because the impetus of this study is the lengthy transit times of high priority cargo destined for Spangdahlem AB and not the expense of the transportation, costs will not be addressed in this study.

Data will be collected for the five months prior to the beginning of the test and for the five months of the test. Transit times for engines, hazardous cargo, and classified material will not be analyzed since these were not shipped via express carriers. This analysis focuses on the transit time of high priority cargo, as seen from the customer perspective, and not the cost of the transportation. Thus, costs will not be addressed in this study.

#### II. Data Collection

#### Introduction

This chapter focuses on the methodology used to collect the required data for analysis. Data were gathered from several sources including the Air Force Traceability and Cargo (ATAC) system and various Federal Express sources. Data from these sources were used to conduct the analysis.

#### **Organic Data**

The primary source of data collection for the organic data was from the official ATAC system. Due to the nature, scope and limitations of this study, the only data selected for analysis were high priority cargo destined for Spangdahlem Air Base, Germany.

In order to compare commercial transportation with organic transportation, data from the 5 month period prior to the activation of sole commercial service for high priority items were collected. The time period for organic data collection was 1 Dec 95 through 30 Apr 96.

Since the focus of the thesis is with high priority cargo destined for Spangdahlem Air Base, Germany, only cargo identified as 777 and 999 priority codes were used. (See Notes to Table 5 for priority code definitions.)

The ATAC system provided the following information for the organic portion of our data collection:

Table 6 - Organic Data Provided From ATAC System

1.	Document Identifier Codes (DICs)					
·	a. AS1 Record					
	b. TX1 Record					
	c. TXA/D Record					
	d. TK7 Record					
	e. TK1/2 Record					
	f. TK6 Record					
	g. D6S Record					
2.	Document Number					
3.	Consignor Department of Defense Activity Address Code (DoDAAC)					
4.	Consignee DoDAAC					
5.	Aerial Port of Embarkation (APOE)					
6.	Aerial Port of Debarkation (APOD)					

NOTE: The 6 categories listed in Table 6 are defined in Appendix D.

During the collection of organic data, it was found that DICs provide duplicate dates for receipt and shipment to and from the APOE. Items 1-3 below identify the different DICs that produce APOE receipt dates and items 4-6 below identify the different DICs that produce APOE ship dates.

- 1. TXA/D receipt at APOE
- 2. TK7 receipt at APOE
- 3. TK1/2 receipt at APOE
- 4. TK7 ship from APOE
- 5. TXA/D ship from APOE
- 6. TK1/2 ship from APOE

Multiple DICs for the same date (APOE receipt) prompted a call to Headquarters
Air Mobility Command (HQ AMC). Per telecon with Capt Richard Moon, Cargo
Channel Systems Director, the three documents serve three different purposes as already
explained above. The TK7 provides trailer data, the TK1/2 provides advanced

notification, and the TXA/D record provides the actual receipt/shipment date. Per recommendation of Capt Richard Moon and for the purposes of analysis in this thesis, the TXA/D record will be used to determine the actual APOE receipt/shipment date for each document number (Moon, 1997).

Due to the limited scope of the study, certain types of material were excluded from the analysis. The types of material excluded were hazardous material, classified material, and aircraft engines because commercial carriers were not carrying this material for the time of the study.

After collecting the data, an Ada program was designed to put the organic data into a format that could be easily analyzed.

In the original form, each Document Number contained approximately 5-9 different lines for each DIC and many times, there were duplicate DICs. In the event of a duplicate DIC providing the same information, the DIC that had the greatest date was selected in order to give the customer the benefit of not accounting for this shipment until the last possible recorded date. The original format from the ATAC system was not in any form that could be efficiently analyzed. It was imperative to transform this data and have each document number on one line with the corresponding dates of the shipment pipeline in separate columns on the same line for easy analysis. It should be noted that with the exception of the AS1 and D6S dates, all other dates contained an alpha value as the first digit. For example, if it was supposed to be the 353 date, then is was shown as E53. This alpha value represented a particular hour of shipment. For example the letter A represented the time 0001-0100, the letter B, 0101-0200, the letter C 0201-0300, ....all the way through the letter Z with the exception of letters I and O which are not used in

this system, 2301-2400 (DoD 4500.32-R, Vol I:F-7-2, 1987) (Howard, 1997). This was a further hindrance to quick data analysis as each alpha value had to be converted into the appropriate numeric value in order to perform calculations and analysis. The appropriate numeric value was determined by using an Ada program that took the TX1 date and the D6S date and determined the appropriate first numeral. For example, if the TX1 date was 253 and the D6S date was 284 and another record assigned to the same document number showed a value of E68, then the numeral 2 was assigned in place of the E.

During collection of organic data many incomplete and inaccurate data records were found. To conduct a complete analysis, any DIC that had any of the following errors was excluded:

- Conflicting APOEs The APOEs within the same document number conflicted
- 2. Missing AS1 Ship Dates
- 3. Missing TX1 Ship Dates
- 4. Missing APOD Receipt Dates
- 5. Missing APOD Ship Dates
- 6. Missing D6S Receipt Dates
- 7. Illegal Flow—dates from shipment to final receipt were not sequential

Out of 9819 lines of data, 1287 different document numbers were produced. Only 545 document numbers did not contain any of the errors listed above to exclude them from analysis. This demonstrates that of all the records received, only 42% of all document numbers met the criteria to be used in the analysis.

The reasons for rejection and the number rejected for each reason are as follows:

Table 7 - Organic Data Rejection

Total Records Read	9819	
Total Resulting Groups of Document Numbers	1287	
Unusable Groups:		
Conflicting APOEs	109	
Missing AS1 Dates	237	
Missing TX1 Dates	308	
Missing APOD Receipt Dates	16	
Missing APOD Ship Dates	0	
Missing D6S Dates	0	
Illegal Date Flow	72	

Poor data recording and management not only impacts the ability to analyze and improve a given area, but may have an effect on exercises, operations, and actual deployments. In fact, during DESERT STORM, data management had many significant impacts as recently noted in the book So Many, So Much, So Far, So Fast:

Lack of document discipline and slow, partial, inaccurate, and generally lackadaisical data entry were also major impediments to intransit visibility in the DTS, all of which stemmed from the same problem that had created the multitude of service transportation systems that could not talk to each other: nobody in the DoD had control or oversight of the ITV process. (Matthew, et al, 1995:10)

#### **Commercial Data**

Commercial data were collected in order to compare transportation pipeline times between the organic transportation system and Federal Express. Federal Express was chosen to represent commercial carriers because they transport a majority of commercially carried cargo bound for Spangdahlem. Table 8 contains the percentage of cargo shipped by carrier.

Table 8 - Percentage of Commercial Cargo Carried to Spangdahlem

Federal Express	55%
DHL	19%
Emery	19%
Burlington	7%

The percentages for each carrier were obtained from a ten month period in 1996 - January through March and June through December. Data for the months of April and May were not available (Bass, 1997). It was assumed that 10 months of data would adequately represent the commercial carriers serving Spangdahlem AB, Germany.

ATAC could only provide commercial carrier data on the initial ship date and final receipt date. Because this lack of data would not allow us to compare equivalent segments of the organic pipeline to the commercial pipeline and because the data in ATACS was only 42% accurate, it was decided to obtain the necessary data directly from Federal Express. In the attempt to obtain data from the five month test period from Federal Express, Mr. Bill Endres, the Program Management Advisor for Federal Express, was contacted. He stated the data for shipments drop off their system after about 30-60 days. Since the test period was much older than 60 days from the date of request, the data were not available (Endres, 1997).

In order to fully analyze Federal Express shipment times, Federal Express provided three sources of data:

- 1. Actual Data
- 2. Flight Schedule
- 3. Estimated Pipeline Segment Averages

Federal Express provided shipment data for the month of February 1997 to represent the total pipeline time for the commercial carrier. February 1997 was chosen as this was the most current information available at the time of request. The flight schedule (Appendix C) and estimated pipeline segment averages were used to calculate average duration for each segment of the transportation pipeline.

The February 1997 report provided the following categories of information:

Table 9 - Federal Express Information Categories

1	Origination
2	Origination Zip Code
3	Tracking Number
4	Date Shipped
5	Delivery Date
6	Delivery Time
7	Number of Delivery Days
8	Number of Type Packages
9	Shipment Weight
10	POD Recipient Name
11	Document Number

This report showed that 280 items were shipped to Spangdahlem during February 1997. Of these 280 items, six were excluded because the packages did not have a POD and 106 more excluded from the time calculations for the reasons listed in Table 10.

Table 10 - Exception Codes for Federal Express Cargo

EXCEPTION CODE	TOTAL NUMBER	DEFINITION
3	3	Incorrect Recipient Address
8	15	Recipient Not In/Business Closed
14	2	Shipment Returned to Sender
17	31	A Future Delivery Was Requested
24	30	Recipient Was Unavailable - Delivery Delayed
42	3	Holiday - Business Closed
49	1	Recipient Address Was Out of FEC Primary
		Delivery Area
50	1	Improper or Missing Regulatory Paperwork
52	16	Held package "cleared after sort down"
55	3	Package Held For Inspection by Federal or
		State Agency
60	1	Still in Bond Cage Pending Regulatory
		Clearance
TOTAL	106	

Of the 280 packages shipped via Federal Express, 168 met their delivery criteria and were included in their analysis. However, on occasion, numerous packages where shipped under the same tracking number. Thus, only 144 separate tracking numbers were used in our analysis.

#### III. Methodology and Data Analysis

#### Introduction

This chapter focuses on the methodology used to analyze the data and the results of that analysis. First, organic U.S. Air Force overall shipment time between origin and Spangdahlem AB, Germany was compared with Federal Express overall shipment time.

After comparing the overall shipment times, each segment of the transportation pipeline was compared for differences between the two transportation providers in order to determine where significant differences exist.

#### **Comparison of Shipment Times**

Using the data provided by Federal Express (Appendix B) (February 1997) and Air Force organic data (Appendix A) the following descriptive statistics were derived:

Table 11 - Total Transit Time

	MEAN	MEDIAN	MODE	STANDARD DEVIATION	VARIANCE	# OF
						OBSERVATIONS
ORGANIC	6.86 ( \overline{X}_1 )	6	5	6.21 (s <sub>1</sub> )	38.56 ( $\sigma_1^2$ )	545
FEDERAL EXPRESS	2.77 ( $\overline{x}_2$ )	3	2	1.11 (s <sub>2</sub> )	1.24 ( $\sigma_2^2$ )	144

NOTE: Because Federal Express does not deliver on Saturday or Sunday, weekends were not included in their transit time calculations. In order to accurately account for total shipment time from the customer's perspective, the appropriate number of days were added to each shipment total delivery time when weekends were involved.

In order to determine the possibility of outliers in the data, the frequency distributions for FedEx and organic shipments were created in Table 12.

Table 12 - Frequency Distribution of FedEx Shipments

# DAYS	FEDEX	%	CUMUL.	ORGANIC	%	CUMUL.
1	1	0.7%	0.7%	0	0.0%	0.0%
2	68	47.2%	47.9%	13	2.4%	2.4%
3	51	35.4%	83.3%	14	2.6%	5.0%
4	20	13.9%	97.2%	76	13.9%	18.9%
5	1	0.7%	97.9%	125	22.9%	41.8%
6	1	0.7%	98.6%	121	22.2%	64.0%
7	1	0.7%	99.3%	80	14.7%	<b>7</b> 8.7%
8			99.3%	34	6.2%	85.0%
9			99.3%	16	2.9%	87.9%
10			99.3%	23	4.2%	92.1%
11	1	0.7%	100.0%	14	2.6%	94.7%
12				6	1.1%	95.8%
13				4	0.7%	96.5%
14				1	0.2%	96.7%
15				0	0.0%	96.7%
16				3	0.6%	97.2%
17				0	0.0%	97.2%
18				2	0.4%	97.6%
19				1	0.2%	97.8%
20				1	0.2%	98.0%
21				3	0.6%	98.5%
22				1	0.2%	98.7%
23				2	0.4%	99.1%
24				2	0.4%	99.4%
33				1	0.2%	99.6%
81				1	0.2%	99.8%
104				1	0.2%	100.0%
TOTAL	144	100.0%	,	545	100.0%	

Noting the significant variance attributed to the overall organic shipment times (Table 11) and dispersed frequency distribution in Table 12, a Box and Whisker Plot and Stem and Leaf Plot were used to determine any probable outliers for possible elimination from the statistical tests for both the organic and Federal Express data. Based upon the Box and Whisker Plot and the Stem and Leaf Plot, the data selected for elimination from the organic shipment times as probable outliers were total shipment times of 20 or greater and the data selected for elimination from the Federal Express times as probable outliers

was the 11 day shipment time. The outliers for each system were selected for elimination because they were not regular occurrences and did not indicate a constant problem. After removal of the probable outliers from the organic and Federal Express data, 97.8% of the original organic data and 99.3% of the Federal Express data will still be intact for statistical analysis.

After removal of the probable outliers from the organic and Federal Express data, the following descriptive statistics were derived:

Table 13 - Total Transit Time After Removal of Outliers

	MEAN	MEDIAN	MODE	STANDARD DEVIATION	VARIANCE	# OF OBSERVATIONS
ORGANIC	$6.24 (\overline{x}_1)$	6	5	2.39 (s <sub>1</sub> )	5.72 ( $\sigma_1^2$ )	533
FEDERAL EXPRESS	$2.71(\overline{x}_2)$	3	2	.88 (s <sub>2</sub> )	.77 $(\sigma_2^2)$	143

According to the Central Limit Theorem:

If a random sample of n observations is selected from a population (any population), then, when n is sufficiently large, the sampling distribution of  $\bar{x}$  will be approximately a normal distribution. The larger the sample size, n, the better will be the normal approximation to the sampling distribution of  $\bar{x}$ . (McClave and Benson, 1994:282).

McClave and Benson further state that in most real-life applications, the shape of the population distribution will not be known and an  $n \ge 30$  is required to invoke the Central Limit Theorem. Given this Theorem, and the large sample sizes (shown in Table 13) the assumption of  $\bar{x}_1$  and  $\bar{x}_2$  each having approximately normal sampling distributions is met and the Large-Sample Test of Hypothesis for  $\mu_1 - \mu_2$  can be used to test the differences in means.

The Large-Sample Test of Hypothesis will be used on the data before removal of any outliers and then used again after the outliers are removed. The following Large-Sample Test of Hypothesis for  $(\mu_1 - \mu_2)$  was used for statistical analysis.

The two tailed test was conducted as follows:

Ho: 
$$(\mu_1 - \mu_2) = Do$$

Ha: 
$$(\mu_1 - \mu_2) \neq Do$$

where  $D_0$  = hypothesized difference between the means is zero.

Test Statistic: 
$$z = (\bar{x}_1 - \bar{x}_2) - D_o / \sigma_{(\bar{x}_1 - \bar{x}_2)}$$

where 
$$\sigma_{(\bar{x}_1 - \bar{x}_2)} = \sqrt{\sigma_1^2 / n_1 + \sigma_2^2 / n_2}$$

Rejection Region:  $z < -z_{\alpha/2}$  or  $z > z_{\alpha/2}$ 

Inserting the values from Table 11 into the test statistic formula results in a test statistic of 14.51. Given this result,  $H_o$  is rejected and it must be concluded that the average total shipment times between the organic system and Federal Express are different at a .01  $\alpha$  level of significance. Additionally, after removal of the probable outliers, the re-computed test statistic was 27.81 (Table 16). Given this result,  $H_o$  is rejected and it must be concluded that average total shipment times are still significantly different after the removal of the probable outliers.

#### **Comparison of Pipeline Segments**

After determining a significant difference between movement times of Air Force organic movement and Federal Express, the next step was to determine which segments

23

of the transportation pipeline exhibited statistical differences between the two carriers.

The segments of the organic transportation pipeline and the Federal Express pipeline are shown in Table 14.

Table 14 - Pipeline Segments

Segment	1	2	3	4	5	Total
Organic	Depot ship	APOE	APOE	APOD	APOD	Total
	to APOE	Receipt to	Ship to	Receipt to	Ship to	Ship
	Receipt	APOE	APOD	APOD	Final	Time
		Ship to	Receipt	Ship	Receipt	
		APOD				
Federal	Origination	MEM	MEM	FRA	FRA Ship	Total
Express	to Receipt	Receipt to	Ship to	Receipt to	to Final	Ship
	at MEM	MEM	FRA	FRA Ship	Receipt	Time
	Hub	Ship to	Receipt			
		FRA				

Further comments on analysis will be limited to the data without the outliers (Table 16). The descriptive statistics for all five segments of the organic pipeline were determined based on the data from ATAC as stated in chapter 2. However, for the Federal Express pipeline, these parameters were available for only the total ship time. For segments 1, 2, 4, and 5 the average for each segment was calculated by Mr. Kevin Gorman, Government Sales Executive, Federal Express Corporation. Refer to Table 15 for estimates of each pipeline segment. The average for segment 3 of the Federal Express pipeline was taken as the total time from Federal Express' flight schedule (Appendix C) for transit from the Memphis, Tennessee hub to the Frankfurt, Germany hub.

Because of our data collection limitations, variance was only obtained from the total shipment time data. In order to ensure a good test of the means between the organic segments and the Federal Express segments, two tests for each segment were performed.

The first test (Test 1 - Table 16) used zero (0) as the variance for Federal Express in the denominator. By using zero for the Federal Express variance, the denominator is smaller and may drive the test to statistical significance. In the second test (Test 2 - Table 16), the variance of Federal Express' total pipeline (.77 as shown in Table 16) was assigned to each segment. By putting the total variance into each segment of the pipeline, the maximum possible variance attributable to the system was put in each segment as if each segment individually caused all the variance in the total system. If the results of Test 1 and Test 2 are the same, then it can be concluded that the variance of the Federal Express pipeline had no effect on the comparative analysis. Additionally, if by using zero in Test 1 for the variance in the Federal Express segment and the results are not statistically significant, then Test 2 will not be performed as the test will produce results that are even less statistically significant.

Applying the same test statistic as was used in the total shipment time comparison with the same confidence level ( $\alpha$  = .01), each of the segments were tested to determine if there was a statistical difference of the averages. Table 16 indicates the descriptive statistics and the Test 1 and Test 2 z-scores for the overall shipment time and each individual segment.

Table 15 - Computations on Total Transit and Segment Times Before Removal of Outliers

SEGMENT		1	2	3	4	5	Total
ORGANIC	MEAN	1.81	2.01	0.43	0.39	2.22	6.86
	STD	1.62	1.29	1.02	0.51	5.84	6.21
	VAR	2.62	1.66	1.04	0.26	34.09	38.56
	MODE	1	2	0	0	1	5
	MEDIAN	1	2	· 0	0	1	6
FEDERAL EXPRESS	MEAN	0.2708	0.1875	0.50	0.2917	0.3333	2.77
	STD						1.11
	VAR						1.24
	MODE						
	MEDIAN						
TEST 1	Test Statistic	22.20	33.02	-1.60	4.50	7.54	14:51
TEST 2	Test Statistic	13.29	16.88	68	1.03	7.07	14.51
CRITICAL VALUE		± 2.57	± 2.57	± 2.57	± 2.57	± 2.57	± 2.57
SIGNIFICANT		Yes	Yes	No	Yes/No	Yes	Yes

Table 16 - Computations on Total Transit and Segment Times After Removal of Outliers

SEGMENT		1	2	3	4	5	Total
ORGANIC	MEAN	1.74	1.96	0.41	0.39	1.73	6.24
	STD	1.35	1.16	.90	0.51	1.71	2.39
	VAR	1.83	1.36	.81	0.26	2.94	5.72
	MODE	1	2	0	0	1	5
	MEDIAN	1	2	0	0	1	6
FEDERAL EXPRESS	MEAN	0.2708	0.1875	0.50	0.2917	0.3333	2.77
	STD						1.11
	VAR						1.24
	MODE						
	MEDIAN						
TEST 1	Test	25.07	35.09	-2.31	4.45	18.81	27.81
	Statistic						
TEST 2	Test	15.65	19.90	-1.08	1.28	13.37	27.81
	Statistic						
CRITICAL VALUE		± 2.57	± 2.57	± 2.57	± 2.57	± 2.57	± 2.57
SIGNIFICANT		Yes	Yes	No	Yes/No	Yes	Yes

NOTE: Segments 1 through 5 do not add up to total time because the first five segments are estimated averages while the total ship time was derived from the February 1997 shipment data provided by Federal Express. The sum of the averaged segment times of 1.5833 (Table 16 values for segments 1-5) do not equal the 2.71 obtained from actual overall shipment time data because the estimated averages do not include weekends and do not account for the variance that undoubtedly occurs.

The results of Test 1 indicate the difference between the segment and total shipment time means of each system were statistically significant with the exception of segment 3. The results of Test 2 indicate the difference between the segment and total

shipment time means of each system were statistically significant with the exception of segments 3 and 4.

#### Limitations

The results presented have many limitations that must be addressed. When comparing the organic data to the Federal Express data, the organic data was given in whole days whereas the Federal Express data was given in hours and then converted to a fraction of a day. The process of converting the Federal Express time to days helps to ensure an accurate accountability of each part of the day, whereas the organic data is given only in "full" days. In the organic system, if a package was received a few minutes after midnight, an entire day would be added to the delivery time instead of only a few minutes.

Another limitation of the data is that the February 1997 data from Federal Express provided only 143 total shipments which were used to determine the descriptive statistics. Additionally, the tests would have been more credible if the actual data for each segment of the Federal Express pipeline could have acquired.

#### IV. Conclusions and Recommendations

#### Introduction

The purpose of this chapter is to discuss the conclusions drawn from the analysis of the Spangdahlem Air Base delivery time data. Included in this chapter is a brief synopsis of the research, a general review of the research findings, a discussion of research implications, and a list of suggested areas for further research.

## Research Synopsis

The primary purpose of this research was to determine if commercial carriers deliver military cargo originating in the Continental United States (CONUS) to Spangdahlem Air Base, Germany faster than the military's own organic transportation system. The second objective, if commercial carriers are faster, was to determine which portions of the military's transportation pipeline causes the delay in delivery time. Data for the military transportation system were collected from the Advanced Traceability and Cargo (ATAC) system, and data representing commercial carrier services was provided by representatives from FedEx. The evaluation of the two service providers was accomplished by statistically analyzing the mean delivery times and then comparing the mean time for each of the five pipeline segments for the military system with the estimated times for the commercial carrier.

## **Summary of Findings**

During the time periods evaluated, the mean delivery time for the military's organic transportation system from CONUS to Spangdahlem was 6.24 days, while FedEx's mean delivery time was 2.71 days. Statistical analysis using the standard z statistic indicated a significant difference between the two mean delivery times at an  $\alpha$  level of .01. The two-tailed test showed mean delivery time of the military transportation system was significantly larger than that for FedEx. Further statistical analysis of each segment of the transportation pipeline revealed that only the flight times between the CONUS APOE and the Europe APOD were not statistically different for the two systems. Every other segment, including the time to get the cargo to the APOE, the time at the APOE, the time at the APOD, and the time to transport the cargo from the APOD to Spangdahlem was statistically larger for the military's organic transportation system.

### **Discussion of Segments**

Segment one, from the depot to the APOE was significantly larger for the organic transportation system than for the commercial system. Since commercial express carriers provide this transportation in the military's organic system, the comparison is the time it takes FedEx (or other carrier) to transport the item from the depot to their Memphis hub and the time it takes the carrier to transport the item from the depot to Dover AFB,

Delaware - the Air Force APOE for this study. As stated earlier, the average for FedEx for this segment was .2708 days and 1.74 days for the organic system. It should not be surprising that the organic system takes longer for this segment realizing that FedEx would transport the item to their hub (also their APOE) in Memphis and then continue its

movement to Dover. Thus, FedEx has as an obvious time advantage during this segment. When moved commercially to Germany, this segment would be complete when it arrived in Memphis. According to Andy Figueroa, AFMC Transportation Combat Readiness Branch Chief, 1.74 days average for this segment is not unreasonable. After a Material Release Order (MRO) is released at the depot, the transportation department at the depot prepares the item for shipment and places in the FedEx (or other carrier) bin. The carrier representative then comes by and picks up the cargo for onward movement. This pickup could occur on the same day if the MRO was released early enough in the day, which is often the case, since express carriers schedule several pickups from the depots daily. When this happens, the item would be delivered the next day at Dover, AFB; thus incurring a one day delivery period. However, if the MRO was released late in the day, the item would not be picked up until the following day. It would then not be delivered to Dover until the second day after the MRO; thus incurring a two day delivery period. Another consideration for this segment period is the inclusion of weekends. As stated earlier, FedEx and other carriers do not deliver on weekends. Thus, an item picked up on Friday will not be delivered until Monday. This commercial practice obviously increases the average time for this segment. According to Mr. Figueroa, the depot ships the items as soon as possible after receiving the shipment notice without regards to flight schedules at the APOE.

One way to reduce this segment for the organic system would be to only release items for shipment at the depot so that it could be picked up by the express carrier that day and delivered the next day. However, since this is only a time accounting tactic, this would not affect the overall shipment time from the customer's perspective.

Segment two of the pipeline consists of the port hold and handling time at the APOE - Dover AFB aerial port for the organic system and Memphis, TN for FedEx. This segment is also statistically longer for the organic system; taking about two days at Dover and about 4.5 hours at Memphis. AMC's records confirm our findings by indicating that Dover's port hold time for high priority items during 1996 was 48.5 hours. Currently, one C-5 and one KC-135 fly daily channel missions from Dover AFB, Delaware to Ramstein AFB, Germany. According to Lt Col Bellacicco, aerial port operations officer at Dover AFB, the aerial port receives about one thousand packages from express carriers daily. The small express packages, generally delivered by 12:30 p.m. to the port, are immediately in-processed and placed on pallets for loading on a KC-135 that departs at 4:45 p.m. However, large and outsized priority cargo cannot be placed on a KC-135 because of the cargo hold size restrictions of the aircraft. Large items such as an F-15 wing may sit 3-4 days in the port waiting for space on a C-5 aircraft. Another problem that extends port hold time, according to the operations officer is the unreliability of the C-5. Too many times, cargo is delayed at the port simply because the aircraft breaks and cannot be transported until the aircraft is repaired. Beginning on 10 June 1997, the C-5 was replaced with the more reliable, yet smaller, C-17 to lessen this problem.

Thus, according to Lt Col Bellacicco, the large port hold time is in part due to the large items that FedEx refuses to carry and must sit around until space on a large military aircraft is available. One way to reduce this segment for the organic system would be to schedule both the KC-135 and the C-5 or C-17 after the FedEx delivery each day. Then, the high priority items could be immediately placed on a departing aircraft that day.

Segment three consists of the actual flight time between Dover AFB and Ramstein AFB, Germany. There is no significant difference at the .01  $\alpha$  level between the commercial system and the military organic system unless all the variance for the commercial system is placed in this segment. Since this is unrealistic, it will not be addressed.

Segment four is the port hold time at APOD. For the organic system, it consists of the time from aircraft block time (when the aircraft officially lands) to the time of inputting information into the Consolidated Aerial Port System (CAPS). For FedEx it is the time between check-in of the package until it is released for movement to Spangdahlem. The Ramstein port hold time is significantly different from the commercial hold time at Frankfurt International Airport only when all of the variance of the commercial system is placed in this segment. Since this is not realistic, there may not be a significant difference between the two systems for this segment.

Segment five of the system is the transportation time between the Aerial Port of Debarkation (Ramstein for the organic system and Frankfurt International Airport for the commercial system) and the Spangdahlem AFB Supply office. Once again, the organic system is significantly longer than is the commercial system. The cargo is trucked from the APOD to Spangdahlem for both systems. The drive is approximately four to six hours. The commercial system reasonably averages about eight hours for this segment. However, the organic system averages about 1.73 days. For the organic system, the Army's 28th Transportation Battalion picks up a truckload every day from the aerial port and delivers the cargo to the Spangdahlem Supply office (Little, 1997). One possible

cause of delay is that if there is more than one truckload of cargo, the excess cargo may have to wait one or more days to be delivered to Spangdahlem. Another possible cause of the large average segment time is that cargo may arrive after the truck departs to Spangdahlem. Thus the cargo would wait one day awaiting transportation. These two possibilities could combine to create this large average segment time. The obvious solution to this problem is to schedule the departure of the truck after the aircraft have arrived and downloaded. Additionally, if one truck cannot handle all of the Spangdahlem cargo, then arrange for an additional truck to carry the additional cargo. In the future, when a credible intransit visibility system is implemented DoD wide, the Army will be able to schedule the necessary number of trucks in advance and provide better service.

## **Conclusions Drawn From Research**

The primary conclusion drawn from this research is that the commercial carriers are indeed able to transport small items (weighing less than 150 pounds) to Spangdahlem AB, Germany faster than the military's traditional organic transportation system. A secondary conclusion taken from this research is that every segment of the pipeline except the actual flight time between CONUS and Europe all take significantly longer for the military system than for the commercial system.

## **Discussion of Research Implications**

This comparison of the military's organic transportation system with commercial express package carriers may be stacked against the organic system because commercial express carriers have designed their business processes to ensure quick delivery of small packages. However, the Air Force's transportation system is designed to transport troops

and cargo in support of a war effort. Except for extraordinary circumstances such as during Desert Shield/Storm when the Air Force implemented Desert Express to transport high priority items to the Southwest Asia, the Air Force transportation system is not designed to provide express delivery of high priority items. In short, the Air Force has not been asked to provide the same level of service as commercial express carriers. A more meaningful comparison would be to redesign the Air Force process, establish an organic express delivery service, and compare this capability to commercial carrier performance.

One recent Air Mobility Command initiative, labeled World Wide Express (WWX), is an attempt to take advantage of commercial carriers' swift delivery system by contracting out the movement of all high priority cargo originating and/or terminating at overseas bases, weighing less than 150 pounds, and meeting the appropriate size dimensions to members of the Civil Reserve Air Fleet (CRAF). Phase II of this plan would allow commercial carriers to deliver all cargo meeting the above specifications weighing less than 1000 pounds (Curtis, 1997).

Although this plan would allow for faster delivery of high priority cargo than is currently available using the current military system and may lead to higher aircraft mission capable rates in the short-term, the long-term implications are uncertain. Will the carriers that transport the military's cargo in peace time continue to provide the same level of service during war? Will the carriers, some of whom are actually logistics managers, begin to operate the military's base level logistics operations as outsourcing expands? Will Air Mobility Command continue to fly normal channel missions to overseas bases if the majority of cargo is being shipped via commercial air carriers?

Since the organic capability is already available (in the form of C5s, C141s, C17s, etc.), this plan will inevitably increase transportation costs to the Air Force. The channel missions and training missions will continue to fly, but the DoD will be paying to have much of the cargo transported by commercial carriers even though there may be capacity available on organic aircraft.

One area of the military transportation system that needs improving is the information/data systems. The output from ATAC contained codes in both the column headings and in the data that required extensive deciphering using DoD regulations and knowledge from experienced transportation personnel. The meaning of many of these arcane codes were unknown to many transportation personnel. Additionally, the ATAC output contained unnecessary data that only complicated data analysis. For example, ATAC provided the expected receipt date at a location, another date indicating cargo trailer information, and finally the actually receipt date. Data analysis could be much easier if only the information required could be produced. Another major problem with the DoD transportation information systems is the reliability of data collection. Much of the data collection is still accomplished by manual input. These antiquated methods lead to mistakes and omissions in the data. More than 50% of the cargo data collected for this research analysis could not be analyzed because of errors in the data.

The DoD is currently undertaking a major project to improve this problem by implementing the Global Transportation Network (GTN). GTN, in addition to improving in-transit visibility within the DoD transportation system, will also improve the accuracy and reliability of data. The continued support of Lean Logistics and adopting best

business practices will eventually improve data reliability as the DoD expands the use of bar codes and bar code readers to automatically collect and record cargo data.

### Recommendations for Further Research

During the course of this narrowly defined research project, numerous possibilities for further research were identified. The following suggestions provide additional research topics that could prove useful to the transportation community.

Transportation Costs. Depending on the size and weight of the item and the distance to be carried, commercial carriers may charge less than AMC. Thus, military units wanting to use commercial carriers claim they will incur less cost and faster service by contracting out airlift services. However, in light of the fact the Air Force has already incurred the fixed costs of owning its fleet of cargo aircraft, overall cost to the DoD of paying commercial carriers for capability that the Air Force already maintains should be analyzed.

Effect of Outsourcing Peace Time Airlift on Aircraft Utilization. In the past, aircraft utilization has been a prime indicator of the efficiency of AMC and thus has been monitored closely for every mission. As outsourcing becomes more prevalent in the U.S. military, more peace time airlift will be contracted out. The impact of outsourcing airlift on the utilization rate of Air Force cargo planes should be analyzed.

Effects of World Wide Express (WWX) on Air Mobility Command. The World Wide Express plan has potentially far-reaching effects on Air Mobility Command. World Wide Express is expected to move approximately 40% of the cargo now being transported by AMC (Curtis, 1997). With a reduction in their workload, how will

AMC's capacity be affected? How will manning be affected? What will be the effect on transportation costs for cargo moved by AMC? How will this affect AMC's ability to provide airlift during war? The WWX concept provides numerous opportunities for further research.

<u>Transportation Time Outliers</u>. Due to the scope of this research effort, the cause of the 12 outliers in this study were not determined. However, the understanding of outliers is often a productive effort that reveals problems in the system. Further research to discern the source of these outliers might present crucial information to improve the organic transportation system.

Improvement of Transportation Information Systems. This research project uncovered considerable difficulties for the authors when trying to collect usable data. The assistance of a computer programmer was needed to extract the data from the ATAC system as well as to write a computer program to organize the data into a usable and meaningful format. In comparison to the simple and clear report from FedEx, the military information system is outdated and wasteful. The Global Transportation Network project should ensure clear and meaningful outputs.

# Appendix A. Organic Data

FB562160299515 FB562160510593 FB562153120059	SW35 SW35 FB48 SW31 FB44	DOV DOV DOV DOV DOV DOV DOV DOV	242 365 315 317 30 317 9 23 53 82	304 OL AIHS 1X1 2456 316 315 23 313 54 53 54 53 82	37 37 37 37 38 318 32 320 11 33 55 83	86 86 87 88 86 89 89 89 89 89 89 89 89 89 89 89 89 89	25 28 28 28 28 28 28 28 28 28 28 28 28 28	25 41 330 243 330 243 358 87 87 88 87	349 349 317 349 340 338 46 335 26 45 74 102	OO TAN TAN TAN TAN TAN TAN	1 5 6 9 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	E E E E E LIN NER NE APOE rec to APOE Ship	LOON OO DOO DE LOO O APOE Ship to APOD Rec	O O O O O O O O O O A A APOD Rec to APOD Ship	15 1 2 1 2 1 2 1 2 1 2 2 1	02 12 12 12 12 12 12 12 12 12 12 12 12 12
The data above are	the 12	outlier	s selec	led for	elimina	ion fro	m the a	nalysis	as indi	cated i	n the ti	nesis te	xt.			
FB562160580155 FB562151300006 FB562153349500 FB562160099561 FB562160039561 FB562153190167 FB562153190167 FB562153200210 FB562153190179 FB562153320013 FB562153320013 FB562153320013 FB562153330113 FB562153330113 FB562153330113 FB562153380179 FB562160320232 FB562160302032 FB562160030380 FB562160030380 FB562160030386 FB562160030358 FB562160030358 FB562160030358 FB562160030358 FB562160030358 FB562160300065 FB5621603500254 FB562160350012 FB562160350012 FB562160350012 FB562160350012 FB562160599510 FB562160599510	SW32 SW32 SW32 FB48	DOV	324 321 321 321 321 321 321 324 321 328 348 349 26 44 89 4 5 18 17 26 46 40 40 40 40 40 40 40 40 40 40 40 40 40	62 343 334 9 41 77 77 321 322 322 40 329 349 349 27 41 90 6 19 18 27 40 40 40 40 40 40 40 40 40 40	65 346 335 10 46 80 325 325 325 325 325 331 352 353 31 46 93 9 10 22 18 31 55 44 44 44 51 44 106 61 61 61 61 61 61 61 61 61 6	67 348 337 13 52 81 332 328 332 49 340 354 355 37 48 95 11 11 24 18 34 57 46 46 53 50 108 60 60 60 60 60 60 60 60 60 60	67 348 337 25 54 82 332 332 328 332 49 340 354 356 37 49 95 11 11 28 19 34 57 46 46 54 50 110 64	67 348 338 25 54 82 332 332 328 332 50 340 355 356 37 50 95 12 28 19 35 57 46 46 54 50 110 110 110 110 110 110 110	81 361 352 25 57 93 335 335 335 335 341 361 361 39 53 102 16 17 30 29 38 58 51 51 57 53 113 71 113	0 1 0 0 0 1 1 -2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 3 3 1 1 1 5 3 4 3 7 7 2 2 3 4 4 4 5 3 0 4 4 4 5 3 0 0 4 4 4 4 5 1 6 1 6 1 6 1 6 1 6 1 7 1 8 1 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 2 2 3 6 1 7 7 2 7 2 9 2 2 2 6 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0 0 0 0 12 2 1 1 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 1 0	14 13 14 0 3 11 3 7 3 3 7 3 3 1 1 6 5 2 3 7 4 5 2 10 3 10 3 10 10 10 10 10 10 10 10 10 10 10 10 10	19 18 18 16 16 16 14 13 13 13 13 12 12 12 12 12 12 11 11 11 11 11 11 11
FE562153260016 FB562152790650 FB562153050332 FB562153250035 FB562153250192 FB562153330223 FB562160030247 FB562160040170	SW32 SW32 SW32 SW32 SW32 SW32 SW35	DOV DOV DOV DOV DOV DOV DOV	335 335 308 335 329 335 12 44	335 336 309 335 329 336 13 44	339 339 311 338 332 339 16 46	341 341 314 340 335 341 18 53	341 341 314 340 335 341 18 53	342 342 314 340 335 342 18 53	346 346 319 345 339 346 23 54	0 1 1 0 0 1 1	4 3 2 3 3 3 3 2	2 2 3 2 3 2 2 7	0 0 0 0 0 0	1 0 0 0 1 0	4 4 5 5 4 4 5	11 10 10 10 10 10 10 10
FB562160060028 FB562160080485 FB562160090443 FB562160100147 FB562160110229 FB562160170191 FB562160230408 FB562160230408 FB562160230404	SW32 SW04 SW31 SW32 SW32 SW31 SW35 SW32	DOV DOV DOV DOV DOV DOV DOV	12 19 19 19 12 22 19 33 27 40	13 13 20 20 13 21 20 30 28 41	16 16 22 22 15 24 22 36 30 44	18 18 24 24 18 25 24 38 37 46	18 18 28 28 18 29 28 38 37 46	18 18 28 28 18 29 28 38 37 46	23 23 30 30 23 31 30 40 38 51	1 1 1 1 1 1 3 1 1 1 1 1 1	3 3 2 2 3 3 2 6 2	2 2 2 2 2 1 2 2 7	0 0 4 4 0 4 0 0	0 0 0 0 0 0	5 2 2 5 2 2 2 2 1 5	10 10 10 10 10 10 10 10 10

FB562160380095	SW32	DOV	40	41	44	46	46	46	51	<del></del>	3	2			-	40
FB562160380189	SW32	<u> </u>	40	41	44	46	46	46	51	1	3	2	0	0	5	10
FB562160440136	SW35		47	47	51	53	54	54	57	0	4	2	1	0	3	10
FB562160610319	SW32		67	68	71	74		74	78	1	3	3	Ö	0	4	10
FB562161000338	SW35	DOV	113	110	115	117	118	118	120	-3	5	2	1	0	2	10
FB562161029517	FB48	DOV	103	103	106	108	110	110	113	0	3	2	2	0	3	10
FB562152200277	SW32	DOV	328	329	331	337	337	338	338	1	2	6	0	1	0	9
FB562153339504	SW32	DOV	352	353	355	357	362	362	362	1	2	2	5	0	0	9
FB562153420195	SW32	DOV	351	352	355	357	358	359	361	1	3	2	1	1	2	9
FB562153450078	SW32	DOV	351	352	355	357	358	359	361	1	3	2	1	1	2	9
FB562160110115	SW32	DOV	16	17	18	18	19	19	26	1	1	0	1	0	7	9
FB562160110639	SW32		13	14	16	18	18	18	23	1	2	2	0	0	5	9
FB562160120606	SW32		16	16	18	18	19	19	25	0	2	0	1	0	6	9
FB562160449515	FB48		44	44	45	47	52	52	53	0	1	2	5	0	1	9
FB562160450714	SW35		54	52	57	59	59	59	61	-2	5	2	0	0	2	9
FB562160470197	SW31		50	51	57	59	59	59	60	1	6	2	0	0	1	9
FB562160479500 FB562160519510	SW32		54	55	61	63	63	63	64	1	6	2	0	0	1	9
FB562160580387	SW32		54 104	55 104	61 108	63	63	63	64	1	6	2	0	0	1	9
FB562160780451	SW32		82	83	86	111	111	111	113	0	4	3	0	0	2	9
FB562160800106	SW32		82	83	86	89 89	89 89	90	92 92	1	3	3	0	1	2	9
FB562160850336	SW32		89	90	93	95	95	95	92	1	3	2	0	1	2	9
FB562152610188	SW32		352	353	354	357	357	357	361		1	3	0	0	4	8
FB562152980094	SW32		347	348	352	354	354	355	356	<del>-</del>	4	2	0	1	1	8
FB562153210091	SW32		332	332	333	337	337	337	340	0	1	4	0	0	3	8
FB562153210227	SW32		347	348	352	354	355	355	356	1	4	2	1	0	1	8
FB562153290005	SW32		334	334	339	341	341	341	342	Ö	5	2	Ö	0	1	8
FB562153450080	SW35	DOV	353	353	355	357	358	359	361	0	2	2	1	1	2	8
FB562153460206	SW35	DOV	354	353	356	357	358	359	361	-1	3	1	1	1	2	8
FB562153549515	FB48	DOV	356	354	355	357	362	362	362	-2	1	2	5	0	0	8
FB562160120485	SW32		16	17	18	18	19	19	25	1	1	0	1	0	6	8
FB562160120584	SW32		16	17	18	18	19	19	25	1	1	0	1	0	6	8
FB562160160055	SW32		17	18	18	18	19	19	26	1	0	0	1	0	7	8
FB562160169527		DOV	17	17	18	18	19	19	25	0	1	0	1	0	6	8
FB562160180315 FB562160190198	SW32		22	23	24	25	29	29	31	1	1	1	4	0	2	8
FB562160230171			29 30	31	31	37	37	37	39	2	0	6	0	0	2	8
		DOV	36	31 29	31 31	37 34	37 34	37 35	39	-7	0	6	0	0	2	8
FB562160260060	SW32		30	31	31	37	37	37	39	1	0	3 6	0	0	2	8
FB562160290017	SW35		33	32	36	38	38	38	40	· -1	4	2	0	0	2	8
FB562160299506		DOV	29	29	30	34	34	35	37	0	1	4	0	1	2	8
FB562160299522	FB28	DOV	30	30	31	37	37	37	38	0	1	6	ō	0	1	8
FB562160300072	SW31	DOV	30	31	31	37	37	37	39	1	0	6	0	0	2	8
FB562160300111	SW35	DOV	37	37	39	43	43	43	45	0	2	4	0	0	2	8
FB562160309507		DOV	30	30	31	37	37	37	38	0	1	6	0	0	1	8
FB562160320062	SW35		37	37	39	43	43	43	45	0	2	4	0	0	2	8
FB562160449501		DOV	44	44	45	48	49	50	52	0	1	3	1	1	2	8
		DOV	44	44	45	48	49	50	52	0	1	3	1	1	2	8
FB562160460008 FB562160460011	SW32		72	72	75	77	77	78	80	0	3	2	0	1	2	8
FB562160530509			72	72	75	77	77	78	80	0	3	2	0	1	2	8
FB562160610338	SW31		80 62	81 63	85 65	86 67	87 67	87 67	89	1	4	1	1	0	2	8
FB562160750321			81	81	85	67 86	67 87	67 87	71 89	0	4	1	0	0	4	- 8
FB562160939505			93	93	94	97	97	99	101	0	1	3	0	2	2	8 8
FE562152930144			348	348	353	355	356	356	356	0	5	2	1	0	0	8
FE562152930146			348	348	353	355	356	356	356	ő	5	2	1	0	0	8
FB562152890182			348	349	352	354	354	355	356	1	3	2	Ö	1	1	7
FB562153120342			341	342	345	348	348	349	349	1	3	3	0	1	Ö	7
FB562153219504			334	335	335	339	341	341	342	1	0	4	2	Ö	1	7
FB562153219505			333	334	335	338	339	339	341	1	1	3	1	0	2	7
FB562153259500			331	331	332	336	337	337	338	0	1	4	1	0	1	7
FB562153310157			334	335	338	340	340	340	342	1	3	2	0	0	2	7
FB562153319500			332	331	332	336	337	337	338	-1	1_	4	1	0	1	7
FB562153350197			341	342	345	348	348	349	349	1	3_	3	0	1	0	7
FB562153389511 FB562153419505			338	338	339	341	341	342	345	0		2	0	1	3	7
FB562153419505 FB562153450216		DOV	341 348	342 349	345 352	348	348 354	349	349	1	3	3	0	1	0	7
FB562153459507			345	349	346	354 349	350	355 350	356	1	3	2	0	1	1	7
FB562153459534			345	345	346	348	348	348	352 352	0	1	3	1 0	0	2	7
FB562153460393			349	349	353	355	356	356	352	0	4	2	1	0	4 0	7
FB562153499409			349	349	352	354	354	355	356	0	3	2	0	1	1	7
FB562153499503			352	349	352	354	354	355	356	-3	3	2	0	1	1	$\frac{7}{7}$
FB562160020182			5	5	10	11	11	12	12	0	5	1	0	1	0	7
FB562160030386			24	25	29	31	31	31	32	1	4	2	0	ö	1	7
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FB562160039508	SW32		9	10	12	15	15	16	17	1	2	3	0	1	1	7
FB562160040296	SW32	DOV	32	33	36	37	38	38	40	1	3	1	1	0	2	7
FB562160049514	-	DOV	5	5	10	11	11	12	12	0	5	1	0	11	0	7
FB562160050450	SW32	DOV	10	11	15	16	16	17	18	1	4	1	0	1	1	7
FB562160050454	SW32	DOV	24	25	29	31	31	31	32	1	4	2	0	0	1	7
FB562160050455	SW32	DOV	24	25	29	31	31	31	32	1	4	2	0	0	1	7
FB562160059500	FB23	DOV	5	5	10	11	11	12	12	0	5	1	0	1	Ö	7
FB562160059521	FB48	DOV	5	5	10	11	11	12	12	0	5	1	0	1	0	7
												· · · · · · · · · · · · · · · · · · ·			<del></del>	
FB562160080733	SW32		10	11	12	15	15	16	18	1	1	3	0	1	2	7
FB562160089500	SW32		9	10	12	15	15	15	17	1	2	3	0	0	2	7
FB562160089510	SW32		9	10	12	15	15	16	17	1	2	3	0	1	1	7
FB562160089524	SW35	DOV	9	9	11	13	13	13	16	0	2	2	0	0	3	7
FB562160099519	SW32	DOV	10	11	15	16	17	17	18	1	4	1	1	0	1	7
FB562160099560	FB48	DOV	9	9	11	11	13	13	16	0	2	0	2	0	3	7
FB562160109530	FB48	DOV	11	11	12	15	15	16	18	0	1	3	0	1	2	7
FB562160169503		DOV	16	16	17	19	19	20	23	0	1	2	0	1	3	7
																1
FB562160169513	FB48	DOV	17	17	18	18	19	19	24	0	1	0	1	0	5	7
FB562160169519	SW31	DOV	29	30	30	34	34	35	37	1	0	4	0	1	2	7
FB562160180135	SW32	DOV	23	23	25	26	27	27	30	0	2	1	1	0	3	7
FB562160199512	FB46	DOV	23	23	24	25	27	27	30	0	1	1	2	0	3	7
FB562160300063	SW32	DOV	34	33	37	39	39	40	40	-1	4	2	0	1	0	7
FB562160300291			32	33	36	37	38	38	40	1	3	1	1	o	2	7
	FB28	DOV	39	39	43	44	44	45	46	0	4	1	o	1	1	7
FB562160400237		DOV	71	72	73	75	76								3	
	SW31							76	79		1	2	1	0		7
FB562160430098			45	46	47	49	49	50	53	1	1	2	0	1	3	7
FB562160449516	FB61	DOV	45	45	46	48	49	50	<b>5</b> 2	0	1	2	1	1	2	7
FB562160449526	FB48	DOV	45	45	46	48	49	50	52	0	1	2	1	1	2	7
FB562160450226	SW32	DOV	52	53	57	59	59	59	60	1	4	2	0	0	1	7
FB562160450590	SW32	DOV	57	58	59	63	64	64	65	1	1	4	1	0	1	7
FB562160459275	FB44	DOV	45	45	46	49	49	50	52	0	1	3	0	1	2	7
FB562160459276	FB48	DOV	45	45	46	48	49	50	52	0	1	2	1	1	2	7
FB562160459277	FB62	DOV	45	45	46	49	49	50	52	0	<u></u>	3	Ö			7
														1	2	
FB562160459279		DOV	45	45	46	49	49	50	52	0	1	3	0	1	2	7
	SW31		45	45	46	49	49	50	52	0	1	3	0	1	2	7
FB562160459511		DOV	45	45	46	48	49	50	52	0	1	2	1	1	2	7
FB562160469520	FB48	DOV	47	46	47	49	49	50	53	-1	1	2	0	1	3	7
FB562160530674	SW31	DOV	74	75	78	79	80	80	82	1	3	1	1	0	2	7
FB562160539509	FB48	DOV	54	54	57	58	58	59	61	0	3	1	0	1	2	7
FB562160579518		DOV	59	58	59	63	64	64	65	<u>-1</u>	1	4	1	Ö	1	7
FB562160589509	FB48	DOV	58	58	59	63	63	63	65	0	1	4.	0	0	2	7
	FB48	DOV	82	82	85	86	86	86	89	0	3	1	0	0	3	7
IFB562160619514							68	68	71	0	2	1	1	0	3	7 !
		DOV	64	64	66	67					_				_	
FB562160660145	FB48 SW32		67	68	66 71	72	73	73	75	1	3	1	1	0	2	7
		DOV						73 76	75 79	1	1	2	1	0	_	
FB562160660145	SW32	DOV DOV	67	68	71	72	73								2	7
FB562160660145 FB562160670513 FB562160700003	SW32 SW32 SW31	DOV DOV	67 71 72	68 72 73	71 73 73	72 75 75	73 76 76	76 76	79 80	1	1	2	1	0	2 3 4	7 7 7
FB562160660145 FB562160670513 FB562160700003 FB562160710078	SW32 SW32 SW31 SW31	DOV DOV DOV	67 71 72 72	68 72 73 73	71 73 73 73	72 75 75 75	73 76 76 76	76 76 76	79 80 80	1 1 1	1 0 0	2 2 2	1 1 1	0 0 0	2 3 4 4	7 7 7 7
FB562160660145 FB562160670513 FB562160700003 FB562160710078 FB562160710080	SW32 SW32 SW31 SW31 SW31	DOV DOV DOV DOV	67 71 72 72 72	68 72 73 73 73	71 73 73 73 73	72 75 75 75 75	73 76 76 76 76	76 76 76 76	79 80 80 80	1 1 1	1 0 0	2 2 2 2	1 1 1	0 0 0	2 3 4 4 4	7 7 7 7 7
FB562160660145 FB562160670513 FB562160700003 FB562160710078 FB562160710080 FB562160719505	SW32 SW32 SW31 SW31 SW31 FB48	DOV DOV DOV DOV DOV	67 71 72 72 72 72	68 72 73 73 73 71	71 73 73 73 73 73 73	72 75 75 75 75 75	73 76 76 76 76 76	76 76 76 76 76	79 80 80 80 80 78	1 1 1 1	1 0 0 0	2 2 2 2 3	1 1 1 1	0 0 0	2 3 4 4 4 2	7 7 7 7 7
FB562160660145 FB562160670513 FB562160700003 FB562160710078 FB562160710080 FB562160719505 FB562160730233	SW32 SW32 SW31 SW31 SW31 FB48 SW32	DOV DOV DOV DOV DOV DOV	67 71 72 72 72 72 71 81	68 72 73 73 73 71 82	71 73 73 73 73 73 73 86	72 75 75 75 75 75 76 88	73 76 76 76 76 76 76 88	76 76 76 76 76 76 88	79 80 80 80 78 89	1 1 1 1 0	1 0 0 0 2 4	2 2 2 2 3 2	1 1 1 1 0	0 0 0 0	2 3 4 4 4 2 1	7 7 7 7 7 7
FB562160660145 FB562160670513 FB562160700003 FB562160710078 FB562160710080 FB562160719505 FB562160730233 FB562160759536	SW32 SW31 SW31 SW31 FB48 SW32 FB28	DOV DOV DOV DOV DOV DOV DOV	67 71 72 72 72 71 81 78	68 72 73 73 73 71 82 78	71 73 73 73 73 73 73 86 80	72 75 75 75 75 76 88 81	73 76 76 76 76 76 88 82	76 76 76 76 76 88 82	79 80 80 80 78 89	1 1 1 1 0 1	1 0 0 0 2 4	2 2 2 2 3 2	1 1 1 1 0 0	0 0 0 0 0	2 3 4 4 4 2 1 3	7 7 7 7 7 7 7
FB562160660145 FB562160670513 FB562160700003 FB562160710080 FB562160719505 FB562160730233 FB562160759536 FB562160759536 FB562160799503	SW32 SW31 SW31 SW31 FB48 SW32 FB28 FB44	DOV DOV DOV DOV DOV DOV DOV DOV	67 71 72 72 72 71 81 78 79	68 72 73 73 73 71 82 78 79	71 73 73 73 73 73 73 86	72 75 75 75 75 76 88 81 85	73 76 76 76 76 76 88 82 85	76 76 76 76 76 76 88	79 80 80 80 78 89	1 1 1 1 0	1 0 0 0 2 4 2	2 2 2 2 3 2	1 1 1 1 0	0 0 0 0	2 3 4 4 4 2 1	7 7 7 7 7 7
FB562160660145 FB562160670513 FB562160700003 FB562160710078 FB562160710080 FB562160719505 FB562160730233 FB562160759536	SW32 SW31 SW31 SW31 FB48 SW32 FB28 FB44	DOV DOV DOV DOV DOV DOV DOV DOV	67 71 72 72 72 71 81 78 79 85	68 72 73 73 73 71 82 78 79 85	71 73 73 73 73 73 73 86 80	72 75 75 75 75 76 88 81	73 76 76 76 76 76 88 82	76 76 76 76 76 88 82	79 80 80 80 78 89	1 1 1 1 0 1	1 0 0 0 2 4	2 2 2 2 3 2	1 1 1 1 0 0	0 0 0 0 0	2 3 4 4 4 2 1 3	7 7 7 7 7 7 7 7
FB562160660145 FB562160670513 FB562160700003 FB562160710080 FB562160719505 FB562160730233 FB562160759536 FB562160759536 FB562160799503	SW32 SW31 SW31 SW31 FB48 SW32 FB28 FB44 FB48	DOV DOV DOV DOV DOV DOV DOV DOV	67 71 72 72 72 71 81 78 79	68 72 73 73 73 71 82 78 79	71 73 73 73 73 73 73 86 80 81	72 75 75 75 75 76 88 81 85	73 76 76 76 76 76 88 82 85	76 76 76 76 76 88 82 85	79 80 80 80 78 89 85	1 1 1 0 1 0	1 0 0 0 2 4 2	2 2 2 2 3 2 1 4	1 1 1 1 0 0 1	0 0 0 0 0 0 0 0 0	2 3 4 4 4 2 1 3	7 7 7 7 7 7 7 7
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FB562153320381	SW31	DOV	222	224	224	226	220	227	240		_					
1EDEC01E000010C	SW32		333	334 350	334 353	336	336	337	340	1	0	2	0	1	3	6
FB562153320436 FB562153329501			333			355	356	356	356	1	3	2	1	0	0	6
	FB44	DOV		332	334	336	336	337	338	-1	2	2	0	1	1	6
FB562153349512	SW32		335	336	339	341	341	341	342	1	3	2	0	0	1	6
FB562153349513	SW32		335	336	339	341	341	341	342	1	3	2	0	0	1	6
FB562153359506	FB28	DOV	335	335	338	340	340	340	341	0	3	2	0	0	1	6
FB562153380198	SW32	DOV	347	348	349	351	353	353	354	1	1	2	2	0	1	6
FB562153380345	SW32		347	347	348	352	352	352	353	0	1	4	0	0	1	6
FB562153400145	SW32	DOV	347	347	348	352	352	352	353	0	1	4	0	0	1	6
FB562153460012	FD70	DOV	349	350	353	355	356	356	356	1	3	2	1	0	0	6
FB562153460070	SW32	DOV	349	350	353	355	356	356	356	1	3	2	1	0	0	6
FB562153469510	FB48	DOV	346	346	347	348	349	349	352	0	1	1	1	0	3	6
FB562153469513	FB61	DOV	346	346	347	348	349	349	352	0	1	1	1	0	3	6
FB562153479519	FB48	DOV	348	348	349	351	353	353	354	0	1	2	2	0	1	6
FB562153489500	FB48	DOV	348	348	349	351	353	353	354	0	1	2	2	ō	1	6
FB562153489514	FB48	DOV	352	348	349	351	353	353	354	-4	1	2	2	0	1	6
FB562153489517	FB48	DOV	348	348	349	351	353	353	354	0	1	2	2	Ö	1	6
FB562153490806		DOV	354	355	357	359	359	360	361	1	2	2	0	1	1	6
FB562160020091		DOV	5	6	10	11	11	12								
	-	DOV	3						12	1	4	1	0	1	0	6
				2	4	6	6	6	8	-1	2	2	0	0	2	6
FB562160080699	SW32		9	10	11	13	13	13	16	1	1	2	0	0	3	6
FB562160090270	SW32		11	12	15	16	16	17	18	1	3	1	0	1	1	6
FB562160090369		DOV	10	11	12	15	15	16	17	1	1	3	0	1	1	6
FB562160090607	SW32		11	12	15	16	16	17	18	1	3	1	0	1	1	6
FB562160100007	SW32		11	12	15	16	16	17	18	1	3	1	0	1	1	6
FB562160100286	SW32	DOV	11	12	15	16	16	17	18	1	3	1	0	1	1	6
FB562160109502	FB48	DOV	12	10	11	13	13	13	16	-2	1	2	0	0	3	6
FB562160109512	FB48	DOV	11	11	12	15	15	16	17	0	1	3	0	1	1	6
FB562160109534	FB48	DOV	11	11	12	15	15	16	17	0	1	3	0	1	1	6
FB562160110196	SW32	DOV	25	26	29	30	31	31	32	1	3	1	1	0	1	6
FB562160119513	FB48	DOV	11	11	12	15	15	16	17	0	1	3	0	1	1	6
FB562160119517	FB48	DOV	12	11	12	15	15	16	17	-1	1	3	0	1	1	6
FB562160129515	FB44	DOV	12	12	15	16	17	17	18	0	3	1	1	Ö	1	6
FB562160149500	SW32	DOV	17	17	19	20	20	20	23	ō	2	1	Ö	ŏ	3	6
		DOV	16	17	17	19	19	20	23	1	0	2	0	1	3	6
	SW32		24	24	26	28	28	28	30	Ö	2	2	0	0	2	6
FB562160259515		DOV	26	26	29	30	31	31	32	0	3	1	1	0	1	6
		DOV	26	26	29	30	31	31	32	0	3	<del>-</del>	1	0	1	6
		DOV	26	26	29	30	31	31	32	0	3	1	1	0	1	6
		DOV	26	26	30	30	31	31	32	0	4	-	1	0	· 1	6
FB562160290250	SW32		40	40	44	46	46	46	46	0	4	2	0	0	0	
FB562160290250	SW32		39	40	43	44	44	45	46							6
	SW32		53	54	57	58	58	59	60	1	3_	1	0	1	1	6
	SW32		30								3	1	0	1	1	6
FB562160309508	SW31			31	33	36	36	36	37	1	2	3	0	0	1	6
			58	59	59	63	64		65	1	0	4	1			
								64						0	1	6
		DOV	31	31	32	33	36	36	37	0	1	1	3	0	1	6
	FB64	DOV	33	33	36	33 37	36 38	36 38	37 39	0	1 3	1	1	0	1	6
FB562160319519	FB64 FB44	DOV	33 31	33 31	36 32	33 37 33	36 38 34	36 38 34	37 39 37	0	1 3 1			0	1	6
FB562160319519 FB562160330276	FB64 FB44 SW32	DOV DOV	33 31 39	33 31 40	36 32 43	33 37 33 44	36 38 34 44	36 38 34 45	37 39 37 46	0 0 0 1	1 3 1 3	1 1 1	1	0	1	6
FB562160319519 FB562160330276 FB562160330642	FB64 FB44 SW32 SW32	DOV DOV DOV	33 31 39 39	33 31 40 40	36 32 43 43	33 37 33 44 44	36 38 34 44 44	36 38 34 45 45	37 39 37 46 46	0 0 0 1	1 3 1 3 3	1 1 1	1 1 0	0 0 0 1	1 1 3 1	6 6 6 6
FB562160319519 FB562160330276 FB562160330642 FB562160360150	FB64 FB44 SW32 SW32 SW31	DOV DOV DOV DOV	33 31 39 39 58	33 31 40 40 59	36 32 43 43 59	33 37 33 44 44 63	36 38 34 44 44 64	36 38 34 45 45 64	37 39 37 46 46 65	0 0 0 1 1	1 3 1 3 3 0	1 1 1 1 4	1 1 0 0	0 0 0 1 1	1 1 3 1 1	6 6 6
FB562160319519 FB562160330276 FB562160330642 FB562160360150 FB562160370236	FB64 FB44 SW32 SW32 SW31 SW32	DOV DOV DOV DOV DOV	33 31 39 39 58 39	33 31 40 40 59 40	36 32 43 43 59 40	33 37 33 44 44 63 42	36 38 34 44 44 64 42	36 38 34 45 45 45 64 43	37 39 37 46 46 65 46	0 0 0 1 1 1	1 3 1 3 3 0	1 1 1 1 4 2	1 1 0 0 1	0 0 0 1 1 0	1 1 3 1 1 1 3	6 6 6 6 6
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FBSS2160196906   FB48   DOV   61   61   64   66   66   66   67   0   3   2   0   0   1   6   FBSS2160196908   FB48   DOV   87   65   66   67   68   68   67   0   3   2   0   0   1   6   FBSS2160196908   FB48   DOV   87   65   66   67   68   68   71   71   1   1   1   0   3   6   FBSS216096908   FB48   DOV   87   65   66   67   68   68   71   71   1   1   1   0   3   6   FBSS21609609047   SW321   DOV   72   73   74   77   77   77   77   79   1   1   3   0   0   0   2   6   FBSS2160900508   SW31   DOV   72   73   74   77   77   77   77   77   1   1   1				-								·			<del></del>		
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FEBSC10005950F   FBA6   DOV   66   65   66   67   68   66   71   -1   1   1   1   0   3   6   6   6   65   66   67   68   68   71   -1   1   1   1   0   3   6   6   6   6   6   65   66   67   68   68   71   -1   1   1   0   3   0   0   2   6   6   6   6   6   6   6   6   6	FB562160619508	FB48	DOV	61	61	64	66	66	66	67	0	3	2	0	0	1	6
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FRESCIENTISCES SAYSIZE DOV 72 73 74 77 77 77 79 1 1 1 3 0 0 0 2 6 FRESCIENTISCES SAYSIZE DOV 72 72 72 74 75 75 75 78 0 0 0 2 1 1 0 3 6 FRESCIENTISCES SAYSIZE DOV 72 72 74 75 75 75 78 1 1 0 0 2 0 0 4 6 6 FRESCIENTISCES SAYSIZE DOV 72 72 74 75 75 75 78 1 1 0 0 2 0 0 4 6 6 FRESCIENTISCES SAYSIZE DOV 72 72 74 75 75 75 78 1 1 0 0 2 0 0 4 6 6 FRESCIENTISCES SAYSIZE DOV 73 73 73 74 77 77 77 77 77 77 77 77 77 77 77 77	FB562160680347	SW32	DOV	72	73	74	77	77	77	79	1	1	3	0	0	2	6
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FRESCIENTISSEN   FREAT   DOV   72   72   72   74   75   75   78   0   0   0   2   1   0   0   3   6   FRESCIENTISSEN   SW31   DOV   74   75   77   77   77   77   77   77	FB562160710263	SW32	DOV	72	73		77	77	77	79	1	1	3	0	0	2	6
FBS521607920424 SW31 DOV														1			
FBS52160729708   FBA6   DOV   72   72   74   75   75   78   0   0   2   1   0   0   0   3   6   FBS5216073941   SW31   DOV   75   76   78   79   80   80   80   2   1   2   1   1   0   0   2   6   FBS5216073951   FBA6   DOV   75   76   77   77   77   77   77   79   0   1   3   0   0   2   6   FBS5216073951   SW31   DOV   75   76   78   79   80   80   80   2   1   2   1   1   0   0   2   6   FBS52160749508   SW32   DOV   75   76   78   79   80   80   80   2   1   2   1   1   0   0   2   6   FBS52160749508   SW32   DOV   78   79   80   81   81   85   0   3   1   1   0   0   1   6   FBS52160749508   SW32   DOV   78   79   80   80   81   81   85   0   1   1   0   0   0   4   6   FBS52160749508   SW32   DOV   78   79   80   81   81   85   0   1   1   0   0   0   4   6   FBS52160749508   SW32   DOV   82   82   85   86   87   87   88   80   93   93   94   1   1   1   0   0   0   4   6   FBS52160049501   FBA6   DOV   82   82   85   86   87   87   88   80   3   3   3   4   0   1   3   1   1   0   1   6   FBS52160049501   FBA6   DOV   94   94   96   97   97   99   100   0   1   2   0   0   2   1   6   FBS52160049501   FBA6   DOV   107   107   108   110   110   110   110   0   1   2   0   0   3   6   FBS52161079513   FBS50   DOV   108   110   110   110   110   110   0   1   2   0   0   3   6   FBS52161079513   FBS50   DOV   108   110   110   110   110   110   0   1   2   0   0   3   6   FBS52161079513   FBS50   DOV   108   110   110   110   110   110   0   1   2   0   0   0   1   0   0   0   1   0   0			<del></del>											<del></del>			
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FESSC2160760149   SW32   DOV   79   79   80   81   82   82   85   1   1   1   1   0   3   6   FESSC21608249501   FB48   DOV   92   79   80   81   81   81   85   0   3   1   1   0   0   4   6   FESSC21608249501   FB48   DOV   82   82   85   86   87   87   88   0   3   1   1   0   1   6   FESSC21608249501   FB48   DOV   88   88   89   90   90   91   94   1   1   1   1   0   1   0   1   6   FESSC21608249501   FB48   DOV   88   88   89   92   93   93   94   0   1   3   1   0   1   6   FESSC21608249501   FB48   DOV   107   107   108   110   110   110   113   0   1   2   0   0   2   1   6   FESSC21608249501   FB48   DOV   107   107   108   110   110   110   113   0   1   2   0   0   3   6   FESSC2161079513   FB30   DOV   107   107   108   110   110   110   113   0   1   2   0   0   3   6   FESSC2161079573   FB30   DOV   110   111   114   116   117   117   1   3   2   0   1   0   6   FESSC2161079573   SW32   DOV   110   111   114   116   116   117   117   1   3   2   0   1   0   6   FESSC2161089025   SW32   DOV   114   114   115   118   118   119   120   0   1   3   0   1   0   6   FESSC2161499027   FB48   DOV   5   6   10   111   11   112   112   113   114   1   0   3   0   1   1   6   FESSC2161499027   SW32   DOV   140   114   115   118   118   119   120   0   1   3   0   1   1   6   FESSC2160804853   SW37   DOV   140   114   115   118   118   119   120   0   1   3   0   1   1   6   FESSC2160804853   SW31   DOV   340   344   346   348   348   348   348   348   348   0   2   2   0   0   1   0   6   FESSC2160804853   SW31   DOV   340   344   344   344   345   346   1   1   2   0   1   1   0   0   5   FESSC216326006   SW32   DOV   343   344   343   343   335   337   337   338   339   1   0   2   0   0   1   5   FESSC216326006   SW32   DOV   343   344   343   344   345   346   1   1   2   0   1   1   5   FESSC216326006   SW32   DOV   343   344   343   343   336   336   336   337   339   1   0   2   0   0   1   1   5   FESSC216326006   SW32   DOV   343   344   344   344   345   346   1   1   2   0   1   1   5   FESSC2163																	
FBS62160799514   FB48   DOV   79   79   80   81   81   85   80   1   1   0   0   0   4   6   FBS6216039050   FB48   DOV   82   85   86   87   87   88   0   3   1   1   0   0   1   6   FBS6216039050   FB48   DOV   82   88   88   89   90   90   91   94   1   1   1   0   1   3   6   FBS6216039051   FB48   DOV   88   88   89   92   93   93   94   0   1   3   1   0   1   3   6   FBS62160390501   FB48   DOV   40   94   95   97   97   99   90   00   0   1   2   0   2   1   6   FBS62161079502   FB48   DOV   107   107   108   110   110   110   113   114   0   2   2   0   0   1   1   6   FBS62161079502   FB48   DOV   107   107   108   110   110   113   113   114   0   2   2   0   0   1   1   6   FBS62161079502   FB48   DOV   110   111   114   116   116   117   117   1   3   2   0   1   0   6   FBS62161080276   SW2   DOV   110   111   114   116   116   117   117   1   3   2   0   1   0   6   FBS62161109076   FB48   DOV   114   114   115   118   118   119   120   0   1   3   0   1   1   6   FES62160030248   SW32   DOV   114   114   115   118   118   119   120   0   1   3   0   1   1   6   FES62160030248   SW32   DOV   18   19   19   22   23   23   25   1   0   3   1   1   0   0   6   FES62161090508   SW31   DOV   133   334   336   337   337   338   339   1   1   2   2   0   0   1   5   FBS62161340806   SW32   DOV   333   333   334   334   334   334   334   334   335   337   338   339   1   1   2   0   0   1   1   5   FBS6215330003   SW32   DOV   340   341   342   344   345   346   346   1   2   0   0   1   1   5   FBS6215330003   SW32   DOV   340   341   342   344   345   346   346   1   2   0   0   1   1   5   FBS6215330003   SW32   DOV   340   341   342   344   345   346   1   1   2   0   1   1   5   FBS6215330003   SW32   DOV   340   341   342   344   345   346   1   1   2   0   1   1   5   FBS6215330003   SW32   DOV   340   341   342   344   345   346   1   1   2   0   1   1   5   FBS6215330003   SW32   DOV   340   341   342   344   345   346   1   1   2   0   1   1   5   FBS6215330006   FB48   DOV   340   341   342																	
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FBSS2:161999501   FB48   DOV   94   94   95   97   97   99   100   0   1   2   0   2   1   6   FBSS2:16199502   FB48   DOV   107   107   108   110   1																	
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FB552161080276   SW32   DOV	FB562161079502	FB48	DOV	107	107	108	110	110	110	113	0						
FB5621619809025   SW32   DOV	FB562161079513	FB30	DOV	108	108	110	112	112	113	114	0	2	2	0	1	1	6
FBS62161139598 SW07 DOV 114 114 115 118 118 119 120 0 1 1 3 0 1 1 6 6 FBS6216149507 FB48 DOV 114 114 115 118 118 119 120 0 1 1 3 0 1 1 6 6 FE562160030248 SW32 DOV 5 6 10 11 11 11 12 12 1 1 4 1 0 1 0 1 0 6 6 FE562160030248 SW32 DOV 18 19 19 22 23 23 25 1 0 3 1 0 0 2 6 FE56215302037 SW32 DOV 343 344 346 348 348 348 349 1 2 2 0 0 1 1 5 FB56215320237 SW32 DOV 343 334 336 335 337 337 338 338 0 2 2 0 0 1 0 5 FB56215320238 FD70 DOV 343 333 334 335 337 337 338 338 0 2 2 0 0 1 0 5 FB56215320238 FD70 DOV 343 333 334 335 337 337 338 339 1 1 2 0 1 1 1 5 FB56215330316 SW32 DOV 340 341 342 344 344 345 346 1 1 1 2 0 1 1 1 5 FB56215330316 SW32 DOV 333 334 335 337 337 337 338 339 1 0 2 0 1 1 2 5 FB56215330316 SW32 DOV 333 334 335 337 337 337 338 339 1 0 2 0 1 1 2 5 FB56215330316 SW32 DOV 333 334 335 337 337 338 339 1 0 2 0 1 1 2 5 FB56215330316 SW32 DOV 333 334 335 337 337 337 338 339 1 0 2 0 1 1 2 5 FB56215330316 SW32 DOV 333 334 335 337 337 337 338 339 1 0 2 0 1 1 2 5 FB56215330316 SW32 DOV 330 334 335 337 337 337 338 339 1 0 2 0 1 1 2 5 FB56215330511 SW31 DOV 333 334 335 337 337 337 338 339 1 0 2 0 1 1 2 5 FB56215330511 SW31 DOV 333 334 335 337 337 337 338 339 1 0 2 0 1 1 1 5 FB56215330511 SW31 DOV 333 334 334 335 336 336 337 339 1 0 2 0 1 1 2 5 FB56215330511 SW31 DOV 330 346 347 348 349 350 351 352 1 1 1 1 1 1 1 1 5 FB562153305047 SW32 DOV 340 341 342 344 344 345 346 1 1 2 0 1 1 1 5 FB562153409504 FB44 DOV 340 340 341 342 344 344 345 346 1 1 2 0 1 1 1 5 FB562153409504 FB44 DOV 340 340 341 342 344 344 345 346 1 1 2 0 1 1 1 5 FB562153409504 FB48 DOV 347 347 348 349 350 351 352 0 1 1 1 1 1 1 1 1 1 5 FB562153409504 FB48 DOV 347 347 348 349 350 351 352 0 1 1 1 1 1 1 1 1 5 FB562153409504 FB48 DOV 347 347 348 349 350 351 352 0 1 1 1 1 1 1 1 1 5 FB562153409507 FB48 DOV 347 347 348 349 350 351 352 0 1 1 1 1 1 1 1 1 5 FB562153409507 FB48 DOV 347 347 348 349 350 351 352 0 1 1 1 1 1 1 1 1 5 FB562153409507 FB48 DOV 347 347 348 349 350 351 352 0 1 1 1 1 1 1 1 1 5 FB562153409507 FB48 DOV 347 347 348 349 350 351 352 0 1 1 1 1 1 1 1 1 5 FB5	FB562161080276	SW32	DOV	110	111	114	116	116	117	117	1	3	2	0	1	0	6
FB552163149507 FB48 DOV 114 114 115 118 118 119 120 0 1 1 3 0 1 1 1 6 6 FE552160030248 SW32 DOV 5 6 10 11 11 12 12 1 4 1 4 1 0 0 1 0 6 6 FE5521600030248 SW32 DOV 18 19 19 22 23 23 25 1 0 3 1 0 2 6 6 FE552162970237 SW32 DOV 343 344 346 348 348 348 349 1 2 2 0 0 0 1 5 5 FB552153260166 SW32 DOV 333 334 334 334 346 348 348 348 349 1 2 2 0 0 1 1 0 5 5 FB552153260238 FD70 DOV 333 334 334 335 337 337 337 338 338 0 2 2 0 0 1 1 0 5 5 FB552153260238 FD70 DOV 333 334 334 334 343 343 34 344 344 345 346 1 1 2 0 1 1 1 5 5 FB552153303016 SW32 DOV 333 334 334 334 335 337 337 337 338 339 1 0 2 0 1 1 2 5 FB55215330276 SW31 DOV 333 334 334 335 337 337 338 339 1 0 2 0 1 1 2 5 FB55215330276 SW31 DOV 333 334 334 335 337 337 338 339 1 0 2 0 1 1 2 5 FB55215330276 SW31 DOV 333 334 334 334 336 336 336 337 339 1 0 0 2 0 1 1 2 5 FB55215330276 SW31 DOV 333 334 334 334 336 336 337 339 1 0 0 2 0 1 1 2 5 FB55215330276 SW31 DOV 333 334 334 334 336 336 337 339 1 0 0 2 0 1 1 2 5 FB55215330576 SW31 DOV 333 334 334 334 336 336 337 339 1 0 0 2 0 1 1 2 5 FB55215330576 SW31 DOV 330 334 334 334 336 336 337 339 1 0 0 2 0 1 1 2 5 FB552153305076 SW32 DOV 340 341 342 344 344 345 346 1 1 2 0 0 1 1 1 5 FB55215330504 SW32 DOV 340 341 342 344 344 345 346 1 1 2 0 0 1 1 1 5 FB55215330504 SW32 DOV 340 341 342 344 344 345 346 1 1 2 0 0 1 1 1 5 FB55215340506 FB44 DOV 340 341 342 344 344 345 346 1 1 2 0 0 1 1 1 5 FB55215340506 FB48 DOV 340 341 342 344 344 345 346 1 1 2 0 0 1 1 1 5 FB55215340506 FB48 DOV 347 348 349 350 351 352 0 1 1 1 1 1 1 1 1 5 FB55215340506 FB46 DOV 347 347 348 349 350 351 352 0 1 1 1 1 1 1 1 1 5 FB55215340506 FB48 DOV 347 348 349 350 351 352 0 1 1 1 1 1 1 1 1 5 FB55215340506 FB48 DOV 347 348 349 350 351 352 0 1 1 1 1 1 1 1 1 5 FB55215340506 FB48 DOV 347 348 349 350 351 352 0 1 1 1 1 1 1 1 1 5 FB55215340506 FB48 DOV 347 348 349 350 351 352 0 1 1 1 1 1 1 1 1 5 FB55215340506 FB48 DOV 347 348 349 350 351 352 0 1 1 1 1 1 1 1 1 5 FB55215340506 FB48 DOV 347 347 348 349 350 351 352 0 1 1 1 1 1 1 1 1 5 FB55215340506 FB48 DOV 347 347 348 349 350 351 352	FB562161090025	SW32	DOV	110	111	114	116	116	117	117	1	3	2	0	1	0	6
FB552161149507 FB48 DOV 114 114 115 118 118 119 120 0 1 1 3 0 1 1 0 6 FE552160030248 SW32 DOV 5 6 10 11 11 12 12 12 1 4 1 0 0 1 0 6 FE552160030248 SW32 DOV 18 19 19 22 23 23 25 1 0 3 1 0 0 2 6 FE552162970237 SW32 DOV 343 344 346 348 348 348 348 349 1 2 2 0 0 0 1 5 FE552153260366 SW32 DOV 333 334 346 348 348 348 348 348 0 2 2 0 0 1 0 5 FE552153260368 FD70 DOV 333 344 346 348 348 348 349 1 2 2 0 0 1 1 0 5 FE552153260368 FD70 DOV 333 344 342 344 344 345 346 346 1 1 2 0 0 1 1 5 FE552153260368 SW32 DOV 340 341 342 344 344 345 346 1 1 2 0 0 1 1 5 FE55215330310110 SW31 DOV 333 334 334 336 336 336 337 339 1 0 2 0 1 1 2 5 FE55215330276 SW31 DOV 333 334 334 336 336 336 337 339 1 0 2 0 0 1 2 5 FE55215330276 SW31 DOV 333 334 334 336 336 337 339 1 0 2 0 1 1 2 5 FE55215330276 SW31 DOV 333 334 334 334 336 336 337 339 1 0 2 0 1 1 2 5 FE55215330276 SW31 DOV 333 334 334 334 336 336 337 339 1 0 0 2 0 1 1 2 5 FE55215330276 SW31 DOV 333 334 334 334 336 336 337 339 1 0 0 2 0 1 1 2 5 FE55215330276 SW31 DOV 333 334 334 334 336 336 337 339 1 0 0 2 0 1 1 2 5 FE552153305075 SW32 DOV 340 341 342 344 344 345 346 1 1 2 0 0 1 1 1 5 FE552153305051 SW32 DOV 340 341 342 344 344 344 345 346 1 1 2 0 0 1 1 1 5 FE552153305054 FD44 DOV 340 341 342 344 344 345 346 1 1 1 2 0 0 1 1 1 5 FE55215340505 FD44 DOV 340 341 342 344 344 345 346 1 1 1 2 0 0 1 1 1 5 FE55215340505 FD44 DOV 340 341 342 344 344 345 346 1 1 1 2 0 0 1 1 1 5 FE55215340505 FD44 DOV 340 341 342 344 344 345 346 1 1 1 2 0 0 1 1 1 5 FE55215340505 FD45 DOV 340 341 342 344 344 345 346 1 1 1 2 0 0 1 1 1 5 FE55215340505 FD45 DOV 340 341 342 344 344 345 346 1 1 1 2 0 0 1 1 1 5 FE55215340505 FD45 DOV 340 341 342 344 344 345 346 1 1 1 2 0 0 1 1 1 5 FE55215340505 FD45 DOV 340 341 342 344 344 345 346 1 1 1 2 0 0 1 1 1 5 FE55215340505 FD45 DOV 340 341 342 344 344 345 346 1 1 1 2 0 0 1 1 1 5 FE55215340505 FD45 DOV 340 341 342 344 344 345 346 1 1 1 2 0 0 1 1 1 5 FE55215340505 FD45 DOV 340 341 342 344 345 346 1 1 1 2 0 0 1 1 1 5 FE55215340505 FD45 DOV 340 341 342 344 345 346 1 1 1 2 0 0 1 1 1 5 FE552153	FB562161130598	SW07	DOV	114	114	115					0	1	3	0	1	1	6
FE552160030248 SW32 DOV 5	FB562161149507	FB48	DOV								0	1	3	0	1	1	6
FESSE2150300453   SW31   DOV   18   19   19   22   23   23   25   1   0   3   1   0   2   6   6   6   6   6   6   6   6   6			DOV		6						1			0	1	0	6
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FB562160180246	SW31		58	59	60	62	62	62	64	1	1	2	0	0	2	5
FB562160180314	SW31		31	32	32	33	34	34	37	1	0	1	1	0	3	5
FB562160250106	SW32		40	41	44	46	46	46	46	1	3	2	0	0	0	5
FB562160250128	SW32		31	32	32	36	36	36	37	1	0	4	0	0	1	5
FB562160250254	SW31		33	34	36	38	38	38	39	1	2	2	0	0	1	5
FB562160250267	SW32	DOV	26	27	30	31	31	31	32	1	3	1	0	0	1	5
FB562160260068	SW32	DOV	37	38	39	40	41	41	43	1	1	1	1	0	2	5
FB562160260680	SW32	DOV	34	35	37	39	39	40	40	1	2	2	0	1	0	5
FB562160300178	SW32	DOV	88	89	92	93	93	93	94	1	3	1	0	0	1	5
FB562160320286	SW32	DOV	34	35	37	39	39	40	40	1	2	2	0	1	0	5
FB562160329505	FB48	DOV	32	32	33	36	36	36	37	0	1	3	0	0	1	5
FB562160330199	SW32	DOV	37	38	39	40	41	41	43	1	1	1	1	0	2	5
FB562160370447	SW32		39	40	40	42	42	43	45	1	Ö	2	o	1	2	5
FB562160380056	SW31		51	52	53	54	54	54	57	1	1	1	0	0	3	5
FB562160430405	SW32		51	52	52	53	54	54	57	1	0	1	1	0	3	
FB562160430768	SW31		53	54	54	55	55	56	59	1	0					5
FB562160439517	SW31		46									1	0	1	3	5
				47	47	49	49	50	52	1	0	2	0	1	2	5
FB562160469503	SW32		46	47	47	49	49	50	52	1	0	2	0	1	2	5
FB562160470386	SW31		51	52	52	53	54	54	57	1	0	11	1	0	3	5
FB562160519522	FB48	DOV	52	52	53	54	54	54	57	0	1	1	0	0	3	5
FB562160522555	SW32	DOV	55	56	58	60	60	60	61	1	2	2	0	0	1	5
	SW32		60	60	61	63	64	64	65	0	1	2	1	0	1	5
FB562160529515		DOV	52	52	53	54	54	54	57	0	1	1	0	0	3	5
	SW32		58	59	60	62	62	62	64	1	1	2	0	0	2	5
	SW32		54	55	55	58	58	58	60	1	0	3	0	0	2	5
	SW31		54	55	57	58	58	59	60	1	2	1	0	1	1	5
	SW31	DOV	54	55	57	58	58	59	60	1	2	1	0	1	1	5
	SW31		54	55	57	58	58	59	60	1	2	1	0	1	1	5
FB562160550018	SW32	DOV	58	59	60	62	62	62	64	1	1	2	0	0	2	5
FB562160570172	SW32	DOV	101	102	103	105	105	106	107	1	1	2	0	1	1	5
FB562160580289	SW32	DOV	62	63	65	67	67	67	68	1	2	2	ō	Ö	1	5
FB562160590354	SW32	DOV	65	66	67	68	69	69	71	1	1	1	1	0	2	5
	SW31		61	62	64	66	66	66	67	1	2	2	Ö	0	1	5
	SW32		62	63	65	67	67	67	68	1	2	2	0	0	1	5
	SW32		61	62	62	66	66	66	67	<u></u>	0	4	0	0	1	5
FB562160590572	SW31		61	62	64	66	66	66	67	1	2	2	0	0		
	SW31		61	62	64	66	66	66	67	1	2				1	5
	SW31		61	62	64	66	66	66	67			2	0	0	1	5
	SW31		61	62						1	2	2	0	0	1	5
					64	66	66	· 66	67	1	2	2	0	0	1	5
	SW31		61	62	64	66	66	66	67	1	2	2	0	0	1	5
	SW31		61	62	64	66	66	66	67	1	2	2	0	0	1	5
		DOV	59	59	60	62	62	62	64	0	1	2	0	0	2	5
	SW32		62	63	65	67	67	67	68	1	2	2	0	0	1	5
	SW32		62	63	65	67	67	67	68	1	2	2	0	0	1	5
	SW31		65	66	67	68	69	69	71	1	1	1	1	0	2	5
<del></del>	SW32		62	63	65	67	67	67	68	1	2	2	0	0	1	5
	SW32		62	63	65	67	67	67	68	1	2	2	0	0	1	5
	SW32		68	69	71	72	73	73	74	1	2	1	1	0	1	5
	SW32		69	70	72	74	74	74	75	1	2	2	0	0	1	5
<del></del>	SW31		69	70	71	72	73	73	75	1	1	1	1	0	2	5
FB562160660349			69	70	71	72	73	73	75	1	1	1	1	0	2	5
FB562160669509			66	66	67	68	69	69	71	0	1	1	1	0	2	5
FB562160670455			69	70	71	72	73	73	75	1	1	1	1	0	2	5
FB562160670490			69	70	71	72	73	73	75	1	1	1	1	0	2	5
FB562160670518			73	74	75	77	77	77	79	1	1	2	0	0	2	5
FB562160710615	SW31	DOV	73	74	74	77	77	78	79	1	Ö	3	ō	1	1	5
FB562160720004	SW32	DOV	73	74	75	77	77	77	79	1	1	2	0	0	2	5
FB562160720105			73	74	74	77	77	77	79	1	0	3	0	0	2	5
FB562160729516			73	73	74	77	77	77	78	ò	1	3	0	0	1	5
FB562160739502			73	73	74	77	77	77	78	Ö	1	3	0	0	1	5
FB562160739505			73	73	74	77	77	77	78	0	1	3	0	0	1	5
FB562160739511			73	73	75	77	77	77	78	0	2	2	0	0	1	5
FB562160739521			73	73	74	77	77	77	78	0	1	3	0			
FB562160739532			73	73	74	77	77							0	1	5
FB562160759332			76					77	78	0	1	3	0	0	1	5
				77	78	79	80	80	82	1	_1_	1	1	0	2	5
FB562160750309			79	80	80	81	82	82	85	1	0	1	1	0	3	5
FB562160759701			75	75	77		78	78	80	0	2	0	1	0	2	5
FB562160780083			79	80	80	81	82	82	85	1	0	1	1	0	3	5
FB562160780147			79	80	80	81	82	82	85	1	0	1	1	0	3	5
FB562160780452			88	89	89	92	93	93	94	1	0	3	1	0	1	5
FB562160809506			80	80	81	82	83	83	85	0	1	1	1	0	2	5
FB562160850150			108	108	109	111	111	111	113	0	1	2	0	0	2	5
FB562160850244	SW32	DOV	86	87	88	90	90	90	92	1	1	2	0	0	2	5

FB562160850305	SW32	inov.	87	88	89	90	90	01	02	1	1 4	T 4		T 4	1 2	T #
FB562160860023	SW32		87	88	89	90	90	91 91	93 93	1	1	1 1	0	1	2	5
FB562160860027	SW32	_	87	88	89	90	90	91	93	1	1	1	0	+	2	5
	SW32		101	102	103	105	105	106	107	1	1	2	0	+ 1	1	5
FB562161010510	SW32	<del></del>	104	105	107	108	109	109	110	1	2	1	1	0	1	5
FB562161070077	SW32		108	109	110	112	112	113	114	1	1	2	0	1	1	5
FB562161070267	SW32		108	109	110	113	113	114	114	1	1	3	0	1	Ò	5
FB562161070320	SW32	DOV	108	109	110	112	112	113	114	1	1	2	0	1	1	5
FB562161089504	FB44	DOV	108	108	110	112	112	113	113	0	2	2	0	1	0	5
FB562161089509	FB30	DOV	108	108	110	112	112	113	113	0	2	2	0	1	0	5
FB562161100421	SW32	DOV	111	112	114	116	116	117	117	1	2	2	0	1	0	5
FE562160051173	SW32	DOV	40	41	44	46	46	46	46	1	3	2	0	0	0	5
FB562153339503	FB28	DOV	334	334	335	337	337	338	338	0	1	2	0	1	0	4
FB562153339514	FB48	DOV	338	334	335	337	337	338	338	-4	1	2	0	1	0	4
FB562153399509	FB48	DOV	345	345	346	348	348	348	349	0	1	2	0	0	1	4
FB562153419502	FB48	DOV	341	341	342	344	344	345	345	0	1	2	0	1	0	4
FB562153419503	FB48	DOV	341	341	342	344	344	345	345	0	1	2	0	1	0	4
FB562153459506	FB48	DOV	345	345	346	348	348	348	349	0	1	2	0	0	1	4
FB562153499504	FB48	DOV	352	352	353	355	356	356	356	0	1	2	1	0	0	4
FB562153509500	FB48	DOV	352	352	353	355	356	356	356	0	1	2	1	0	0	4
FB562153529500	FB48	DOV	352	352	353	355	356	356	356	0	1	2	1	0	0	4
	FB48	DOV	352	352	353	355	356	356	356	0	1	2	1	0	0	4
FB562160089502		DOV	8	8	10	11	11	12	12	0	2	1	0	1	0	4
	SW32		81	82	82	85	85	85	86	1	0	3	0	0	1	4
FB562160090357	SW32		27	28	30	31	31	31	32	1	2	1	0	0	1	4
FB562160120141	SW31		13	14	15	16	16	17	18	1	1	1	0	1	1	4
FB562160129519		DOV	13	13	15	16	16	17	17	0	2	1_1_	0	1	0	4
FB562160160061	SW32		27	28	30	31	31	31	32	1	2	1	0	0	1	4
FB562160170420 FB562160190476	SW31 SW32		18 27	19 28	19 29	20 30	20 31	20 31	23 32	1	1	1	1	0	3	4
	SW32		27	28	30	31	31	31	32	1	2	1	0	0	1	4
	SW32		27	28	30	31	31	31	32	1	2	1	0	0	1	4
	SW31		48	49	50	51	51	52	53	1	1	1	0	1	1	4
	SW32		38	39	40	42	42	43	43	1	1	2	0	1	o	4
	SW32		38	39	40	42	42	43	43	1	1	2	0	1	0	4
	SW32		41	42	44	46	46	46	46	<del>- i</del> -	2	2	0	Ö	0	4
	SW32		41	42	44	46	46	46	46	1	2	2	ō	0	0	4
	SW35		39	39	40	42	42	43	43	0	1	2	ō	1	0	4
		DOV	39	39	40	42	42	43	43	0	1	2	0	1	0	4
FB562160389529	FB28	DOV	39	39	40	42	42	43	43	0	1	2	0	1	0	4
FB562160400353	SW32	DOV	41	42	44	46	46	46	46	1	2	2	0	0	0	4
FB562160430390	SW32	DOV	73	74	75	77	77	77	78	1	1	2	0	0	1	4
FB562160510457	SW31	DOV	52	53	54	55	55	56	57	1	1	1	0	1	1	4
FB562160510498	SW31	DOV	52	53	54	55	55	56	57	1	1	1	0	1	1	4
FB562160529561	SW31	DOV	52	53	53	54	54	54	57	1	0	1	0	0	3	4
	SW32		59	60	61	63	63	63	64	1	1	2	0	0	1	4
FB562160530671			60	61	61	62	64	65	65	1	0	1	2	1	0	4
	SW31		55	56	57	58	58	59	60	1	1	1	0	1	1	4
1 2 1 2 2 1 2 1 2 1 2	SW31		<b>5</b> 5	56	58	58	58	59	60	1	2	0	0	1	11	4
		DOV	53	53	54	55	55	56	57	0		1	0	1	1	4
FB562160540162			69	70	71	72	73	73	74	_1_		1	1	0	1	4
FB562160540260			55	56	57	58	58	59	60	1	1	1	0	1	1	4
FB562160549507 FB562160550353			58 66	54 67	55 68	57 <b>6</b> 9	57 69	57 70	58 71	<del>-4</del>	1	2	0	0	1	4
FB562160579500			57	57	58	60	60	60	61	0	1	2	0	0	1	4
FB562160579500			57	57	58	60	60	60	61	0	1	2	0	0	1	4
FB562160590491			62	63	64	66	66	66	67	1	1	2	0	0	1	4
FB562160600064			66	67	68	69	69	70	71	1	1	1	0	1	1	4
FB562160610317			62	63	64	66	66	66	67	1	1	2	0	0	1	4
FB562160610404			62	63	64	66	66	66	67	1	1	2	0	0	1	4
FB562160610446			62	63	64	66	66	66	67	<del>-i</del> -	<del>-</del>	2	0	0	1	4
FB562160610507			62	63	64	66	66	66	67	1	1	2	ō	0	1	4
FB562160610537			62	63	64	66	66	66	67	1	1	2	0	0	1	4
FB562160610547			62	63	64	66	66	66	67	1	1	2	0	0	1	4
FB562160640185			66	67	68	69	69	70	71	1	1	1	0	1	1	4
FB562160640289			66	67	67	68	69	69	71	1	0	1	1	0	2	4
FB562160650185			66	67	67	68	69	69	71	1	0	1	1	0	2	4
FB562160669502			67	67	68	69	69	70	71	0	1	1	0	1	1	4
FB562160669503	FB48	DOV	66	67	67	69	69	70	71	1	0	2	0	1	1	4
FB562160669518	FB44	DOV	67	67	68	69	69	70	71	0	1	1	0	1	1	4
FB562160670458	SW32	DOV	87	88	88	90	90	90	92	1	0	2	0	0	2	4
FB562160679519			67	67	68	69	69	70	71	0	1	1	0	1	1	4
FB562160689524			71	71	72	74	74	74	75	0	1	2	0	0	1	4
	SW32	DOV T	80	81	82	83	84	84	85	1	1	1	1	0	1	4

FB562160730389	SW32	DOV	80	81	82	83	84	84	85	1	1	1	1	0	1	4
FB562160739514	FB48	DOV	74	74	75	77	77	77	78	ö	1	2	0	0	1	4
FB562160749504	FB48	DOV	74	74	75	77	77	77	78	0	1	2	0	0	1	4
FB562160780082	SW32	DOV	80	81	82	83	84	84	85	1	1	1	1	0	1	4
FB562160819505	FB48	DOV	81	81	82	83	83	84	85	Ö	1	1	0	1	1	4
FB562160870627	FB48	DOV	103	103	104	106	106	106	107	0	1	2	0	o	1	4
FB562160879513	FB48	DOV	88	88	89	90	90	91	92	0	1	1	0	1	1	4
FB562160899517	FB44	DOV	90	90	92	93	93	94	94	0	2	1	0	1	Ö	4
FB562161069508	FB44	DOV	106	106	107	108	109	110	110	0	1	1	1	1	0	4
FB562161069509	FB44	DOV	106	106	107	108	109	110	110	0	1	1	1	1	0	4
FB562161089523	FB28	DOV	109	109	110	112	112	113	113	0	1	2	0	1	0	4
FB562161099505	FB48	DOV	109	109	110	112	112	113	113	0	1	2	0	1	0	4
FB562161099509	FB48	DOV	109	109	110	112	112	113	113	0	1	2	0	1	0	4
FB562161099514	FB44	DOV	109	109	110	112	112	113	113	0	1	2	0	1	0	4
FB562153459511	SW32	DOV	345	346	346	348	348	348	349	1	0	2	0	0	1	3
FB562153459514	SW32	DOV	345	346	346	348	348	348	349	1	0	2	0	0	1	3
FB562160039526	FB48	DOV	9	9	10	11	11	12	12	0	1	1	0	1	0	3
FB562160089522	FB28	DOV	9	9	10	11	11	12	12	0	1	1	0	1	0	3
FB562160470206	SW32	DOV	53	54	54	55	55	56	57	1	0	1	0	1	1	3
FB562160520060	SW31	DOV	53	54	54	55	55	56	57	1	0	1	0	1	1	3
FB562160520109	SW31	DOV	53	54	54	55	55	56	57	1	0	1	0	1	1	3
FB562160530592	SW31		57	58	58	60	60	60	61	1	0	2	0	0	1	3
	SW31	DOV	67	68	68	69	69	70	71	1	0	1	0	1	1	3
	SW31		67	68	68	69	69	70	71	1	0	1	0	1	1	3
	SW32		67	68	68	69	69	70	71	1	0	1	0	1	1	3
FB562160679505	FB48	DOV	67	69	69	70	71	71	72	2	0	1	1	0	1	3
	SW31		85	86	86	88	88	88	89	1	0	2	0	0	1	3
	SW32		90	91	92	93	93	94	94	1	1	1	0	1	0	3
FB562160090335	SW32		40	41	41	42	42	43	43	1	0	1	0	1	0	2
FB562160100335	FB44	DOV	93	92	92	93	93	93	94	-1	0	_ 1	0	0	1	2
FB562160430540	SW31		50	51	51	52	52	52	53	1	0	1	0	0	1	2
	SW31		50	51	51	52	52	52	53	1	0	1	0	0	1	2
	SW31		50 50	51 51	51 51	52	52	52	53	1	0	1	0	0	1	2
FB562160450588 FB562160450642		DOV	50	51	51 51	52	52	52	53	1	0	1	0	0		2
	SW31		50	51 51	51	52 52	52	52	53	1	0	1	0	0	1	2
FB562160460199	SW31		50	51	51	52	52 52	52 52	53 53	1	0	1	0	0	1	2
FB562160470237	SW31		50	51	51	52				1	0	1	0	0	_1_	2
	SW31		50	51	51	52	52 52	52 52	53	1	0	1	0	0	1	2
	SW31		50	51	51	52	52		53	1	0	1	0	0	1	2
		DOV	55	57	57	52 58	52 58	52 59	53 59	1 2	0	1	·0	0	1	2
1 DOOZ 100043033	1 040	DOV	55	5/	3/	56	26	29	28		U	1	0	1	0	2

## Appendix B. Commercial Data

149321 PAGE: 2 11516 REPORT: FEQZ206-R01 DEPT-LOC: 249-010	2)*	DOC REFERENCE NOTES TYPE	××	×	××	: <b>×</b>	*:	× ×	: ×	*:	× ;	× ×	. ×	*	× :	× >	<u> </u>	*	*:	× >	<b>C</b> ×	<i>∪</i> ≀	×	× ,	< >	· *	*	*	× ;	<b>K</b> 1	× >	: *	×
PORATION	IPMENTS WITH POD (PART	SHIPHENT POD WEIGHT RECIPIENT NAME	1.10 D.WAEVER	2.20 P.LARECKI	16.90 A.CAMPBELL		4.40 A.CAMPBELL	192.50 A.CAMPBELL	1.10 A.CAMPBELL			14.20 R. LAVIE	26.40 F.LARECKI	33.00 P.LARECKE	83.70 P.LARECKI	2.20 P.LARECKI	14.10 P. JARECKI	22.00 A.CAMPBELL	11.90 A.CAMPBELL		A A B D A BECKT		14.10 P.KIRKPATRICK		I/80 F.LAMELKI		12.18 A.MCDONALD		45.10 L.WATSON		14.50 J.COLAZZO		
	RNATIONAL SH)	S PKGS SVC	2 1 IP	1 12	2 1 IP	3 I I I	2 1 IP	1 1 17	1 1 IP	2 1 IP	2 1 IP	1 1 1 2 2 3 2 4 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5	al I	111	1 1 IP	1 IP	1 T 2	2 1 IP	1 1 1	1 195	10	1 IP	~	2 , 1 IP	2 IP	2 1 1P	2 1 IP	2 1 IP	1 1P	1 I I		41.	2 2 IP
ERAL EXPRESS COR CUSTOMER TIME-IN-TRANSIT ACCOUNT 2085 OFFSHORE/27 FEBRUARY	DESTINATION BREAKOUT OF INTERNATIONAL SHIPMENTS WITH POD (PART	DATE DELIVERY DEL # DEL SHIPPED DATE TIME DAYS	7-9	02-10-97	02-25-97 02-27-97 10:08	02-28-97	03-03-97	02-28-97 03-03-97 10:20	03-03-97	02-27-97	02-27-97	02-25-97 02-26-97 11:15	02-29-97	02-25-97	02-24-97	02-26-97	02-12-4/ 02-14-4/ 04:4/	02-17-97	02-17-97	02-17-97	02-14-97 02-17-97 10:17	02-07-97	02-07-97	02-10-97	02-10-97	02-2/-9/ 03-03-9/ 10:04	02-13-97	02-28-97	03-03-97	03-03-97	02-21-97 02-26-97 10:22	02-03-07	02-19-97
F E D	DESTI		040052606035	040052684520	040052606094	040052606245	040052606315	040052606422	040052606550	040052685846	040052685850	040052606061	84885248544	040052685533	040052685754	040052685802	040052684774	040052684800	040052684881	840052684903	040052684936	040052684170	040052684181	040052684262	040052684332	040052606282	040052684682	040052606234	040052606385	040052606525	040052685555	0400979040	040052685010
7 5 /STATE/CITY/	1672-4130-1	4IZ	85309 LUF		95652 SMF			95652 SMF				95652 SMF					95652 SMF				95652 SMF	95657 SMF				\$2127 MYF						STONE HOLE	
RUN DATE: 04/03/97 RUN TIME: 02:38.35 SEQUENCE: COUNTRY/STATE/CITY/ZIP SERVICE DAYS: 20 WGT: POUNDS	CUSTOMER NUMBER	, R DESTINATION CO ST CITY	US AZ LITCHFIELD PARK	CA SACRAHENTO																						SAN DIEGO		GA MACON					

\* HOLD FOR PICKUP PACKAGES, EXCEPTIONS TO NORMAL DELIVERY AND SHIPMENTS WITHOUT POD (PROOF OF DELIVERY) ARE NOT INCLUDED. SEE PARTS 3 THROUGH 5 FOR BREAKOUT.

A L E X P R E S S C O R P O R A T I O N CUSTOMER TIME-IN-TRANSIT ACCOUNT 2085 OFFSHORE/27 FEDERAL

149321

RUN DATE: 04/03/97 RUN TIME: 02:38.35 SEQUENCE: COUNTRY/STATE/CITY/ZIP SEVICE DAYS: 20 WGT: POUNDS

CUSTOMER NUMBER 1672-4130-1

DESTINATION BREAKOUT OF INTERNATIONAL SHIPMENTS WITH POD (PART 2)\*

# NOLIVALITY OF	*	TRACKING	DATE	DELIVERY DEL		# DEL	# OF TYP	SHIPMENT POD	977	DOC REFERENCE NOTES
_	呈	NUMBER	SHIPPED	DATE	TIME	DAYS	PKGS SVC	WEIGHT	WEIGHT RECIFIENT NAME	
A WIN SOCIA	٤٤	040852485021	02-17-97	02-19-97	10:01	8	2 IP		L.GOLDEN	× 3
	2	040052685043	02-17-97		10:01	8	2 IP	17.60	L.GOLDEN	× )
2	3	040052685124	02-18-97		11:45	4	2 IP	72.70		< >
	2	040052685194	02-19-97		11:09	ю	1 IP	14.10	E.MAYNARD SR	< 3
	5	0400250071	02-19-97	_	11:30	m	1 IP	23.10	J.FOSTER	× 1
	5 8	040050000	02-19-97	_		m	1 IP	13.20	R.GOLDEN	<b>K</b> 3
	5 6	0400554055	02-19-97			ю	1 IP	44.00	J.FOSTER	<b>*</b> ;
		110000000000000000000000000000000000000	02-21-97	_		-	1 IP	62.30	M.ATSON	× 1
		040052685436	02-21-97			-	J IP	33.00		ĸ ?
2 2	5 8	000000000000000000000000000000000000000	02-21-47			-	1 IP	37.40		<b>K</b> ?
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ב : ב	5	20,0002000	77-21-07		• •	۸ ا	1 16	13.20	L. WATSON	×
	3 3	04000760040	70-17-20			۰ م	2 IP	2.20	D.ASHLEY	×
2 3	5	100400750040	70-01-00		٠.	· 8	3 16	33.00		×
E	5 8	76490760760	02-12-07			~	3 IP	33.00	G.MCDONALD	×:
	5	07/109750010	82-13-67			۰ م	1 16	18.90		×
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F 2	3	16400760040	10-48-67	_		. 2	M IP	4.40		×:
	3	040010563000	16-90-00			8	1 IP	18.30		× :
2 2		######################################	02-06-97			~	1 IP	2.20		× :
<u> </u>		8488250355	02-07-97		10:21	~	2 16	33.00	R.WEST	κ )
		440625685172	82-19-97	_		m	1 16	24.00		ĸ :
	. 2	040052685233	82-19-97		90:00	8	7 IP	49.60		< ?
	•	040052404083	02-25-97		10:57	m	1 IP	90.30	L.WATSON	< 3
	, .	040052684671	02-10-97			~	1 16	1.10	J. BOWYER	
1	, .	040052684645	02-10-97	-	10:39	~	1 IP	17.80		< >
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2	_	040052684660	02-10-97		_	~	1 16	17.20		¢ >
FAY		040052684995	02-17-97			8	1 IP	1.10		. >
E	_	040052684166	02-05-97			~	J I	1.10	A.TRENIES	· ><
122		040052684085	02-04-97		• •	N	1	1.10		. >
ž		046052684763	02-12-97	7 02-14-97	7 08:55	8	di H	3.5		< >
2		840852684575	02-07-97	7 02-11-97	7 09:27	N	1 IP	8.80		< >
3	_	040852404542	02-28-97	7 03-03-97	7 09:16	-	1 IP	20.20		< >
		040052404573	02-28-97		7 09:18	-	1 IP	21.60		< >
		04002500000	02-28-97		7 09:18	~	1 IP	21.60		< >
		96190950010	02-28-97		7 10:25	-	1 16	41.80		<b>K</b> 7
5	•	0400250050	62-67-47			8	1 IP	3.30		< :
3		440025044	42-07-47			~	1 I	94.80	J.FLATT	*
			; <b>;</b>							

\* MOLD FOR PICKUP PACKAGES, EXCEPTIONS TO NORMAL DELIVERY AND SHIPHENTS WITHOUT POD (PROOF OF DELIVERY) ARE NOT INCLUDED. SEE PARTS 3 THROUGH 5 FOR BREAKOUT.

6-R01 PAGE : 149321

11518 REPORT : FEQZ206- DEPT-LOC : 249-010	*	DOC REFERENCE MOTES Type	***
	DESTINATION BREAKOUT OF INTERNATIONAL SHIPMENTS WITH POD (PART 2)*	SHIPHENT POD WEIGHT RECIPIENT NAME	1 IP 21.60 D.HANBY 1 IP 21.60 D.HANBY 1 IP 19.80 D.HANBY
F E D E R A L E X P R E S S C U R F U R A I I U R CUSTOMER TIME-IN-TRANSIT ACCOUNT 2085 OFFSHORE/27 FEBRUARY	TINATION BREAKOUT OF INTERNA	DATE DELIVERY DEL # DEL , # OF TYP SHIPPED DATE TIME DAYS PKGS SVC	040052685146 02-18-97 02-20-97 09:11 2 1 IP 040052685345 02-20-97 02-24-97 07:59 2 1 IP 040052684962 02-15-97 02-17-97 07:28 1 1 IP
		# DESTINATION # TRACKING CO ST CITY ZIP STA NUMBER	43056 MNN 040052685146 43056 MNN 04005268545 43056 MNN 040052684962
RUN DATE: 04/03/97 RUN TIME: 02:38.35 SEQUENCE: COUNTRY/STATE/CITY/ZIP SERVICE DAYS: 20 WGT: POUNDS	CUSTOMER NUMBER 1672-4130-1	# DESTINATI	US OH HEATH 43056 MMN 43056 FWN 43056 FWN

O ST CITY	ZIP SIA	NOTBER	SALITICO DATE TANK	?			
			•		4	X X Y B HANBY	
IS ON REATH	43056 MAN	040052685146	16-07-20	7	1		
	43056 MNN	040052685345		2	1 16		
	ATORY HOMN	040052484962	02-15-97 02-17-97 07:28	7	1 IP		
2110	7110 000	040052484111		8	3 IP	46.30 L.SWANSON	
OK OKLAHOHA CILT	250 6470	240000000000000000000000000000000000000	03-03-97	-	1 IP	85.10 J.WARNICK	
	/3149 OKC	20120070000	10-10-10	-	116	9.90 J.WARNICK	
	73149 UKC	2793676367047	10-26-07		J. I.	30.80 L.SWANSON	
	73145 OKC	040000000000000000000000000000000000000	02-24-07		I I	13.20 L.SWANSON	
	73145 OKC	22449240040	76-67-70	4 (	: :		
PA PHILADELPHIA	19111 MXX	040052606186	/6-97-70	۰ ۱۰	4 .		
	19111 NXX	040052606481	03-03-97	<b>-</b>	<u>.</u>		
TORYHANNA	18466 AVP	040052606374	03-01-97	~	1 IP		
or courte	29152 SIM	040052606271	02-27-97 03-03-97 08:56	8	ı ıP		
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אויים אויים אין	NA 40 174	040050485473	02-20-97 02-24-97 09:25	8	1 16	79.30 D.DANIEL	
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KELLY Arb	1000	770707070		×	1 IP	45.80 M.LOPEZ	
SAN ANIONIO	746 1470/	07000750070	12-28-47	M	1 IP	67.60 M.LOPEZ	
	78541 SAF	10100700000	70-77-07	. ~	<u>.</u>	27.50 J.RUBIO	
	78241 SVZ	040052665786	14-17-70	<b>.</b> .			
	78241 SVZ	040052685990	02-27-97	N ·	1		
	78241 SVZ	040052684752		N	1 IP	_	
	78241 SVZ	040052684376	02-07-97 02-10-97 09:50	_	2 IP		
	78261 507	048052684564	02-07-97 02-18-97 09:30	-	1 I		
	10541 5441	000000000000000000000000000000000000000	19-12-47	~	2 IP	72.70 J.RUBIO	
	745 74797	210100760010	20-36-67		-	50.70 M.LOPEZ	
	78241 SVZ	046052606120	14-07-74	, ,		-	
	78241 SVZ	040052606131	02-28-97	n	17		
	78241 SVZ	040052606201	02-26-97 02-28-97 09:57	2	a.		
	78241 SVZ	040052606256	02-26-97 02-28-97 09:00	٧	1 IP	•	
	78241 SVZ	040052606304	02-27-97 03-03-97 09:38	~	1 IP		
	78241 SV7	040052606411	02-28-97 03-03-97 09:43	-	7 IP	66.10 J.RODRIQUEZ	
	78261 SVZ	040052606444	02-28-97 03-03-97 09:38	~	1 IP		
	78241 SV7	040052685835	02-25-97 02-27-97 09:39	8	1 IP		
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\* HOLD FOR PICKUP PACKAGES, EXCEPTIONS TO NORMAL DELIVERY AND SHIPHENTS WITHOUT POD (PROOF OF DELIVERY) ARE NOT INCLUDED. SEE PARTS 3 THROUGH 5 FOR BREAKOUT.

149321 PAGE: 5 11519 REPORT: FEQZ206-R01 DEPT-LOC: 249-010 FEDERAL EXPRESS CORPORATION CUSTOMER TIME-IN-TRANSIT

RIIN DATE: 04/03/9		n n	ERAL	EXP	R E S	C O R	PORATION	149321 PAGE: 5 11519 REPORT: FEGZ206-R
RUN TIME: 02:38.35 SEQUENCE: COUNTRY/STATE/CITY/ZIP SERVICE DAYS: 20	IS //STATE/CITY/	/ZIP	ACCI	CUSTUMEN ACCOUNT 20	O THE TAN 185 OFFSHO FEBRUARY	CUSIUMEK IIME-IN-IKANSII JUNI 2085 OFFSHORE/27 FEBRUARY		DEPT-LOC : 249-010
CUSTOMER NUMBER 1672-4130-1	1672-4130-1		DESTINATION BREAKOUT	EAKOUT OF	" INTER	NATIONAL S	OF INTERNATIONAL SHIPMENTS WITH POD (PART	2)*
# DESTINATION ZIP STA	NO:	* TRACKING NUMBER	DATE D SHIPPED D	DELIVERY DEL Date tim	DEL # DEL TIME DAYS	# OF TYP	SHIPMENT POD WEIGHT RECIPIENT NAME	DOC REFERENCE NOTES TYPE
CHACKA MAR NA	78241 507	040052684553	02-07-97 0	02-10-97 10:02	: 02	1 IP	8.80 J.RUBIO	××
SHEPPARD AFB	76311 SPS	040052685813			09:57	1 1	13.20 T.WESTON	( <b>×</b>
	76311 SPS	040052684656	02-10-97 0	02-12-97 10	10:35	41	6.60 G.STEADHAN	1
UT HILL AFB	84056 060	040052684483			10:28	P. I.		×
OGDEN	84056 060	040052685920			10:25	1 16	79.30 T.WARD	<b>«</b> >
	A4056 0GD	040052685953			10:28	-		< ×
	84056 OGD	040052685183			10:27	1	4.40 T.WARD	¢×
	8405¢ OGD	040052685356			19:60	116		: ×
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	84056 OGD	040052685721			09:41	1	OSAN H AS HA	: *
	84056 000	040052685780			10:21	1 1	CANALL DO. 16	×
	84054 OGD	040052684741	02-12-97		10:29	, IP		: >4
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	84056 OGD	040052684984			10:01	al i		: ×
	84056 060	040052685006			10:17	11 1		*
	84056 OGD	040052685032			10:17	2 IP		: >
	84056 060	040010263993			10:10	1 IP	33.00 1.WARD	: *
	84056 060	040052684074	02-04-97		10:10	I IP	17.10 L.MARU	: ×
	84056 0GD	040052684505	02-07-97		10:20	1 IP	SI.50 G.SIEAUNAN	: >
	84056 060	040052685791	05-54-97		10:21	1 1	Z.Z0 I.WAKU	. >
434 VA 1244 1 444	2445 PHF	040052685776	02-54-97	02-26-97 09	09:27	2 1 IP	A.40 C.FRACE	: 5
א ראומרכו אים	3H4 37716	640052684634		02-12-97 09	09:18	2 1 IP	I.IO C.FRASE	· >
	JHE STATE	040052684100		02-07-97 09	09:37	2 2 IP	4.40 J.LEHMAN	< >
	HE 37710	040052684284		02-10-97 09:10	9:10	2 1 IP		< >
	2465 PHF	640052684030		02-06-97 0	09:36	2 1 IP		< <b>&gt;</b>
RICHHOND	23297 RIC	040052684435		02-11-97	11:01	2 1 IF	2.20 N. TRAMMULL	•

168 TOTAL INTERNATIONAL PACKAGES WITH POD \*

- HOLD FOR PICKUP PACKAGES, EXCEPTIONS TO NORMAL DELIVERY AND SHIPHENTS WITHOUT FOD (PROOF OF DELIVERY) ARE NOT INCLUDED. SEE PARTS 3 THROUGH 5 FOR BREAKOUT.

# Appendix C. March 1997 Federal Express Flight Schedule

MEMPHIS, TN to Frankfurt Germany									
FLIGHT OR ACTIVIT	ORIGIN LOCAL	DEST LOCAL	DISTANCE	LOCAL DEPT.	LOCAL ARR.	GMT(Z) DEPT.	GMT(Z) ARR.	ELAPSE TIME	ELAPSE TIME
Depart Memphis Hub				Tue 3:24		Tue 9:24			
Flight #0004 (MD11)	MEM	CDG		Tue 3:24	Tue 18:46	Tue 9:24	Tue 17:46	8:22	8:37
Transload @ CDG Hub	CDG	CDG	0	Tue 18:46	Tue 20:40	Tue 17:46	Tue 19:40	1:54	1:90
Flight #006F (B727-200)	CDG	FRA		Tue 20:40	Tue 21:53	Tue 19:40	Tue 20:53	1:13	1:22
Arrive Frankfurt			0		Tue 21:53		Tue 20:53	11:29	11:48
Depart Memphis Hub				Tue 3:24		Tue 9:24			
Flight #0004 (MD11)	MEM	CDG		Tue 3:24	Tue 18:46	Tue 9:24	Tue 17:46	8:22	8:37
Transload @ CDG Hub	CDG	CDG	0	Tue 18:46	Tue 21:15	Tue 17:46	Tue 20:15	2:29	2:48
Flight #004A (B727-200)	CDG	FRA		Tue 21:15	Tue 22:28	Tue 20:15	Tue 21:28	1:13	1:22
Arrive Frankfurt			0		Tue 22:28		Tue 21:28	12:04	12:07

		Newark, N	J to Franki	urt Germai	ıy				
FLIGHT OR ACTIVIT	ORIGIN LOCAL	DEST LOCAL	DISTANCE	LOCAL DEPT.	LOCAL ARR.	GMT(Z) DEPT.	GMT(Z) ARR.	ELAPSE TIME	ELAPSE TIME
Depart Newark Hub				Tue 3:30		Tue 8:30			
Flight #0006 (MD11)	EWR	PIK		Tue 3:30	Tue 14:28	Tue 8:30	Tue 14:28	5:58	5:97
Ground time @ PIK	PIK	PIK	0	Tue 14:28	Tue 16:40	Tue 14:28	Tue 15:40	1:12	1:20
Flight #0006 (MD11)	PIK	CDG		Tue 16:40	Tue 18:13	Tue 15:40	Tue 17:13	1:33	1:55
Transload @ CDG Hub	CDG	CDG	0	Tue 18:13	Tue 20:40	Tue 17:13	Tue 19:40	2:27	2:45
Flight #006F (B727-200)	CDG	FRA		Tue 20:40	Tue 21:53	Tue 19:40	Tue 20:53	1:13	1:22
Arrive Frankfurt			0		Tue 21:53		Tue 20:53	12:23	12:38
Depart Memphis Hub				Tue 3:30		Tue 8:30			
Flight #0006 (MD11)	EWR	PIK		Tue 3:30	Tue 14:28	Tue 8:30	Tue 14:28	5:58	5:97
Ground time @ PIK	PIK	PIK	0	Tue 14:28	Tue 16:40	Tue 14:28	Tue 15:40	1:12	1:20
Flight #0006 (MD11)	PIK	CDG					Tue 17:13	1:33	1:55
Transload @ CDG Hub	CDG	CDG	0	Tue 18:13	Tue 21:15	Tue 17:13	Tue 20:15	3:02	3:03
Flight #006F (B727-200)	CDG	FRA		Tue 21:15	Tue 22:28	Tue 20:15	Tue 21:28	1:13	1:22
Arrive Frankfurt			0		Tue 21:53		Tue 20:53	12:58	12:97

## Appendix D, Document Identifier Code Explanations

#### 1. Document Identifier Code:

"The document identifier code is used on all Military Standard Transportation and Movement Procedures (MILSTAMP) data records. It is a means of identifying the functional area system (transportation, supply, etc.), to which the document relates and the intended purpose of the document (TCMD, manifest, tracer, etc.)" (DoD 4500.32-R, 1987:F8-1).

#### a. AS1:

"To notify the requisitioners about the estimated shipping date (ESD) or the actual shipping date of their requisitioned items. The ESD indicates that the items are waiting to be released for shipment; the actual shipping data indicates the day the items will be released to a carrier. Shipment status also provides data for interface with Transportation and for shipment tracing by consignee, as provided in Military Standard Transportation and Movement Procedures (MILSTAMP)" (67-1, 1989:9-155).

- b. TX1: "Shipments not otherwise covered—Prime document for LRU (define) shipment (including empty SEAVAN, CONEX, etc.) not in a consolidation container" (DoD 4500.32-R, 1987:F8-2). This is the date the customer inputs into the system or the Headquarters Air Force Material Command Air Clearance Authority Challenge Desk inputs into the system for requested shipment date to the APOE (Suther, 1997).
- c. TXA: "Shipments not otherwise covered-- Prime document for LRU (define) shipment (including empty SEAVAN, CONEX, etc.) not in a consolidation container" (DoD 4500.32-R, 1987:F8-2). This DIC is the APOE receipt date for loose cargo (Moon, 1997).

- d. TXD: "Shipments not otherwise covered—Prime document for shipment units consolidated in a container (CONEX, SEAVAN, MILVAN, 463L Pallet, RORO, or Unitized Pallet Load) (DoD 4500.32-R, 1987:F8-3).
   This DIC is the APOE receipt date for containerized cargo (Moon, 1997).
- e. TK1: "Prepared by initial intratheater airlift terminal showing hour/day shipment unit is received and forwarded" (DoD 4500.32-R, 1987:F8-4).

  This DIC is primarily used for advanced notification of an impending shipment (Moon, 1997).
- f. TK2: "Prepared by intermediate intratheater airlift terminal showing hour/day shipment unit is received and forwarded" (DoD 4500.32-R, 1987:F8-4). This DIC is primarily used for advanced notification of an impending shipment (Moon, 1997).
- g. TK6: "Prepared by AMC APOD showing hour/day shipment unit is received at an APOD and forwarded to the ultimate consignee" (DoD 4500.32-R, 1987:F8-5).
- h. TK7: "Prepared by HQ AMC/OCCA showing hour/day each export shipment unit is received/lifted from CONUS by AMC and MSC. The OCCA entries include the date of overseas vessel discharge" (DoD 4500.32-R, 1987:F8-5). The primary purpose of this DIC is to provide trailer data—Additional handling instructions or specific cargo profile (e.g. explosives, proper shipping name, outsize cargo) (Moon, 1997).

- D6S Receipt Date: "To receive materiel. These transactions are submitted for report codes 6 or 7 to record gains to the Air Force inventory and maintain in-transit control" (67-1, 1989:10-43).
- Document Number: "Most of the transactions processed with Base Supply are
  assigned an organizational document number made up of 14 alpha and numeric
  characters. It is a control or reference number used to identify a specific transaction"
  (AFM 67-23, 1991:16).
- 3. Consignor DoDAAC: Department of Defense Activity Address Code of Shipper
- 4. Consignee DoDAAC: Department of Defense Activity Address Code of Receiver
- 5. APOE: Aerial Port of Embarkation
- 6. APOD: Aerial Port of Debarkation

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#### Condon Vita

Captain Travis Condon was born on 8 October 1966 in Long Beach, California. He graduated from Bret Harte High School in 1984. On 27 March 1985, he enlisted in the United States Air Force and embarked on a series of assignments while working towards his degree. In September 1990 he received a Bachelor of Science degree in Management from Golden Gate University and subsequently entered Officer Training School in August 1991.

Upon graduation from OTS in November 1991, he was assigned to Griffiss AFB, NY as Chief, Combat Readiness and Resources and graduated from Transportation Officer School at Sheppard AFB, Texas in March 1992. In June 1993, he was reassigned to Falcon AFB, CO as Chief of Transportation and while assigned to this location he completed his Master of Science degree in Business Management at the State University of New York Institute of Technology at Utica/Rome, New York. Following this short assignment, he cross-trained into Logistics Plans and was reassigned to Sembach AFB, GE as Chief, Logistics Plans in June 1994.

It was from this location that he entered the prestigious Air Force Institute of
Technology Graduate School of Logistics and Acquisition Management in May 1996 and
graduated with a Master of Science degree in Transportation Management and Supply
Management in September 1997. He was subsequently assigned to Headquarters Air
Mobility Command as a Transportation Plans Staff Officer.

Permanent address:

P.O. Box 472

Arnold, CA 95223

## Patterson Vita

Captain Kirk A. Patterson was born on 11 September 1962 in Dothan, Alabama. He graduated from Northview High School in 1981 and attended Georgia Institute of Technology in Atlanta, Georgia. He later transferred to Auburn University in Auburn, Alabama where he graduated in December 1985 with a Bachelor of Science degree in Biology. He continued his education at Auburn University, earning a Master of Science degree in Interdepartmental Physiology in June 1988. He received his commission from Officer Training School on 31 July 1991 and graduated from Transportation Officer School at Sheppard Air Force Base, Texas in November 1991.

His first tour of duty was with the 6<sup>th</sup> Aerial Port Squadron at Howard AFB,

Panama. In September 1993, he was assigned to the 8<sup>th</sup> Transportation Squadron, Kunsan

AB, Republic of Korea. One year later he was assigned to the 432<sup>nd</sup> Transportation

Squadron, Misawa ABS, Japan.

Captain Patterson entered the Graduate School of Logistics and Acquisition

Management, Air Force Institute of Technology, in May 1996 and graduated with a

Master of Science degree in both Transportation Management and Supply Management
in September 1997. He was subsequently assigned to Headquarters Air Force Materiel

Command as a Transportation representative on the Inspector General team.

Permanent address:

1263 Westgate Pkwy. Dothan, Alabama 36303

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